United States Department of the Interior

BUREAU OF INDIAN AFFAIRS
Great Plains Regional Office
115 Fourth Avenue S.E.
Aberdeen, South Dakota 57401

TAKE PRIDE IN AMERICA

IN REPLY REFER TO:
DESCRM
MC-208

JAN 2 0 2010

MEMORANDUM

TO: Superintendent, Fort Berthold Agency

FROM: ACTING Regional Director, Great Plains Region

SUBJECT: Environmental Assessment and Finding of No Significant Impact

In compliance with the regulations of the National Environmental Policy Act (NEPA) of 1969, as amended, for the proposed *Addendum to Questar Environmental Assessment dated November 2008* on the Fort Berthold Reservation, an Environmental Assessment (EA) Addendum has been completed and a Finding of No Significant Impact (FONSI) has been issued.

All the necessary requirements of the National Environmental Policy Act have been completed. Attached for your files is a copy of the EA Addendum, FONSI and Notice of Availability. The Council on Environmental Quality (CEQ) regulations requires that there be a public notice of availability of the FONSI (1506.6(b)). Please post the attached notice of availability at the agency and tribal buildings for 30 days.

If you have any questions, please call Marilyn Bercier, Regional Environmental Scientist, Division of Environment, Safety and Cultural Resources Management, at (605) 226-7656.

Attachment

cc: Marcus Levings, Chairman, Three Affiliated Tribes (with attachment)
Perry "No Tears" Brady, THPO (with attachment)
Tracy Opp, Questar (with attachment)
Roy Swalling, Bureau of Land Management (with attachment)
Jonathon Shelman, Corps of Engineers (with attachment)

ENVIRONMENTAL ASSESSMENT

Addendum

United States Bureau of Indian Affairs

Great Plains Regional Office
Aberdeen, South Dakota

Questar Exploration and Production Company

Addendum to:

Questar Exploration and Production Company September 2008 Environmental Assessment

MHA #1-18H-150-90 Bakken Exploratory Oil Well

Fort Berthold Indian Reservation

January 2010

For information contact:
Bureau of Indian Affairs, Great Plains Regional Office
Division of Environment, Safety and Cultural Resources
115 4th Avenue SE
Aberdeen, South Dakota 57401
605-226-7656

Finding of No Significant Impact

Questar Exploration and Production Company (Questar)

Addendum to:

Questar Exploration and Production Company September 2008 Environmental Assessment

MHA #1-18H-150-90 Bakken Exploratory Oil Well

Fort Berthold Indian Reservation
McLean County, North Dakota

The U.S. Bureau of Indian Affairs (BIA) has received a proposal for an addendum to the above referenced Environmental Assessment (EA). The proposal is to authorize the construction of one additional well, drilling, and associated facilities in the same general location covered by the above referenced EA. The name of the additional well is MHA #1-12-11H-150-91. The site is located in the E ½ NW ¼ of Section 18, Township 150 North, Range 90 West. Associated federal actions by BIA include determinations of impacts and effects regarding environmental resources and positive recommendations to the Bureau of Land Management regarding the Applications for Permit to Drill.

The potential of the proposed actions to impact the human environment is analyzed in the attached addendum to an existing EA, as required by the National Environmental Policy Act. Based on the recently completed addendum to the EA, I have determined that the proposed project will not significantly affect the quality of the human environment. No Environmental Impact Statement is required for any portion of the proposed activities.

This determination is based on the following factors:

1. Agency and public involvement solicited for the preceding NEPA document was sufficient to ascertain potential environmental concerns associated with the currently proposed project.
2. Protective and prudent measures were designed to minimize impacts to air, water, soil, vegetation, wetlands, wildlife, public safety, water resources, and cultural resources. The remaining potential for impacts was disclosed for both the proposed actions and the No Action alternative.
3. Guidance from the U.S. Fish and Wildlife Service has been fully considered regarding wildlife impacts, particularly in regard to threatened or endangered species.
4. The proposed actions are designed to avoid adverse effects to historic, archaeological, cultural and traditional properties, sites and practices. Compliance with the procedures of the National Historic Preservation Act is complete.
5. Environmental justice was fully considered.
6. Cumulative effects to the environment are either mitigated or minimal.

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Figures

7. No regulatory requirements have been waived or require compensatory mitigation measures.
8. The proposed projects will improve the socio-economic condition of the affected Indian community.

Regional Director

1/20/10
Date

1. Purpose and Need for the Proposed Action

Questar proposes to authorize the construction of one additional well, drilling, and associated facilities in the same general location covered by the previously authorized EA for Well MHA #1-18H-150-90. The name of the additional well is MHA #1-12-11H-150-91. The new well site is located in the E ½ NW ¼ of Section 18, Township 150 North, Range 90 West approximately 200 feet east of the previously authorized well. ***Please refer to Figure 1, Project Overview Map***

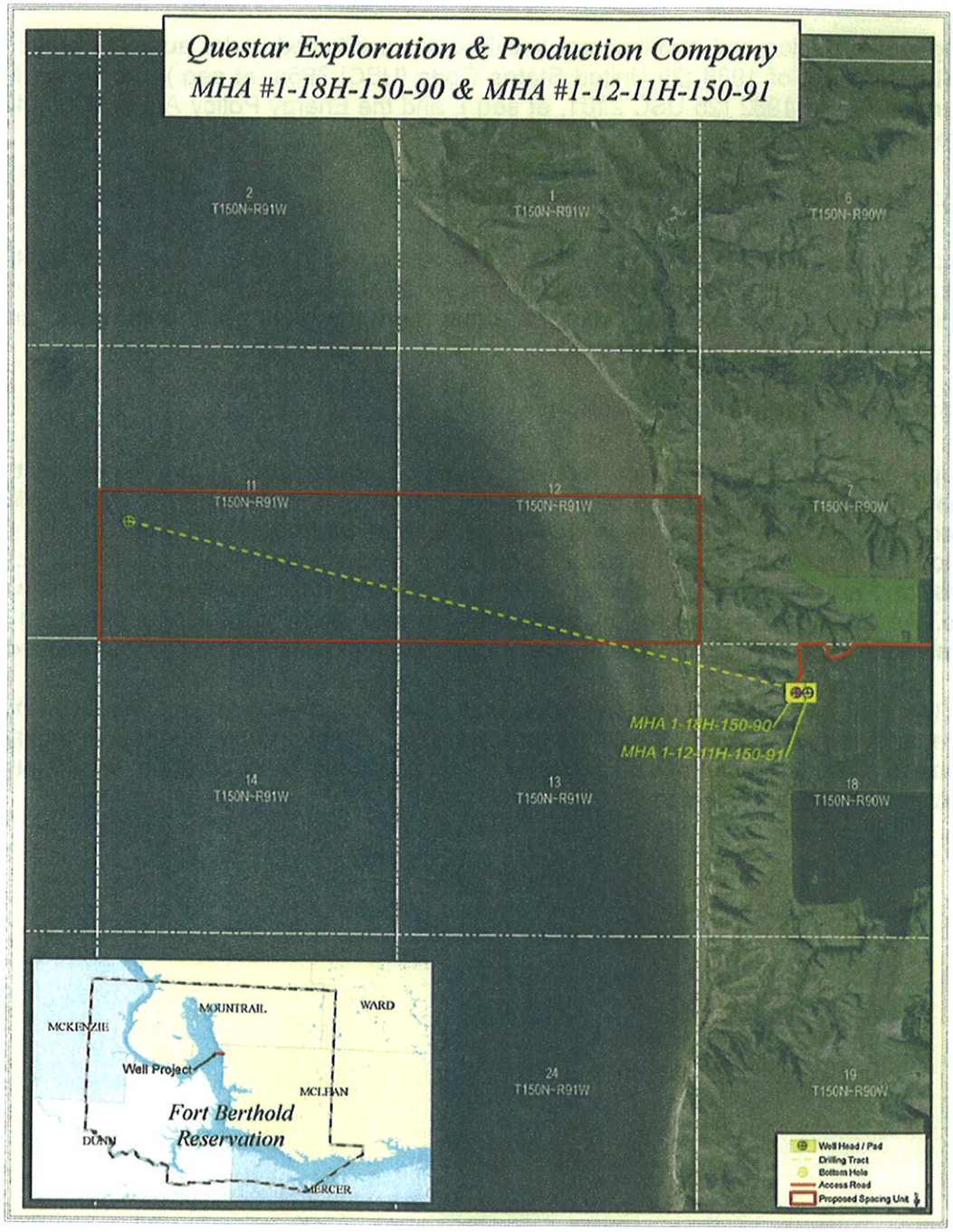


Figure 1, Project Overview Map

The placement of the well would require an additional disturbance of approximately 76,000 square feet or 1.74 acres to the east of the existing pad. Please refer to ***Figure 1, Project Overview Map*** for the boring direction. Additional facilities (i.e. storage tanks, treater, battery, etc.) associated with the proposed wells will be constructed atop the existing pad and the proposed pad extension. All construction activities would take place atop areas that have achieved a Finding of No Significant Impact NEPA approval.

2. Authorities

Oil and gas exploration and development activities are conducted under authority of the Indian Mineral Leasing Act of 1938 (25 United States Code [USC] 396a, et seq.), the Indian Mineral Development Act of 1982 (25 USC 2101, et seq.), and the Energy Policy Act of 2005 (42 USC 15801, et seq.).

3. Legal Land Description of Proposed Action

The proposed well MHA #1-12-11H-150-91 would be located in the E ½ NW ¼ of Section 18, Township 150 North, Range 90 West, approximately 200 feet east of the previously authorized well. The site would be accessed using the same road alignment as is being used and was previously authorized for the existing well.

4. Scope of Work for Proposed Action

The proposed wells and associated facilities would be constructed atop and adjacent to the previously approved well pad; the pad would be extended from the original 380' x 350' to a proposed 380' x 550'. ***Please refer to Figure 2, Pad Layout.*** Aside from the minor pad expansion, all construction and surface disturbance would occur within previously approved locations, and no additional right-of-way would be required for the development of the well and facilities. As such, no additional environmental impacts aside from those disclosed in the previously referenced NEPA documents are anticipated from construction of the proposed well.

Should the well be determined a producing well, construction of ancillary facilities, including pipelines and electrical lines, would be preceded by all necessary agency approvals and guidelines for the installation of said structures. Any additional ROW corridors would follow the constructed well site access road.

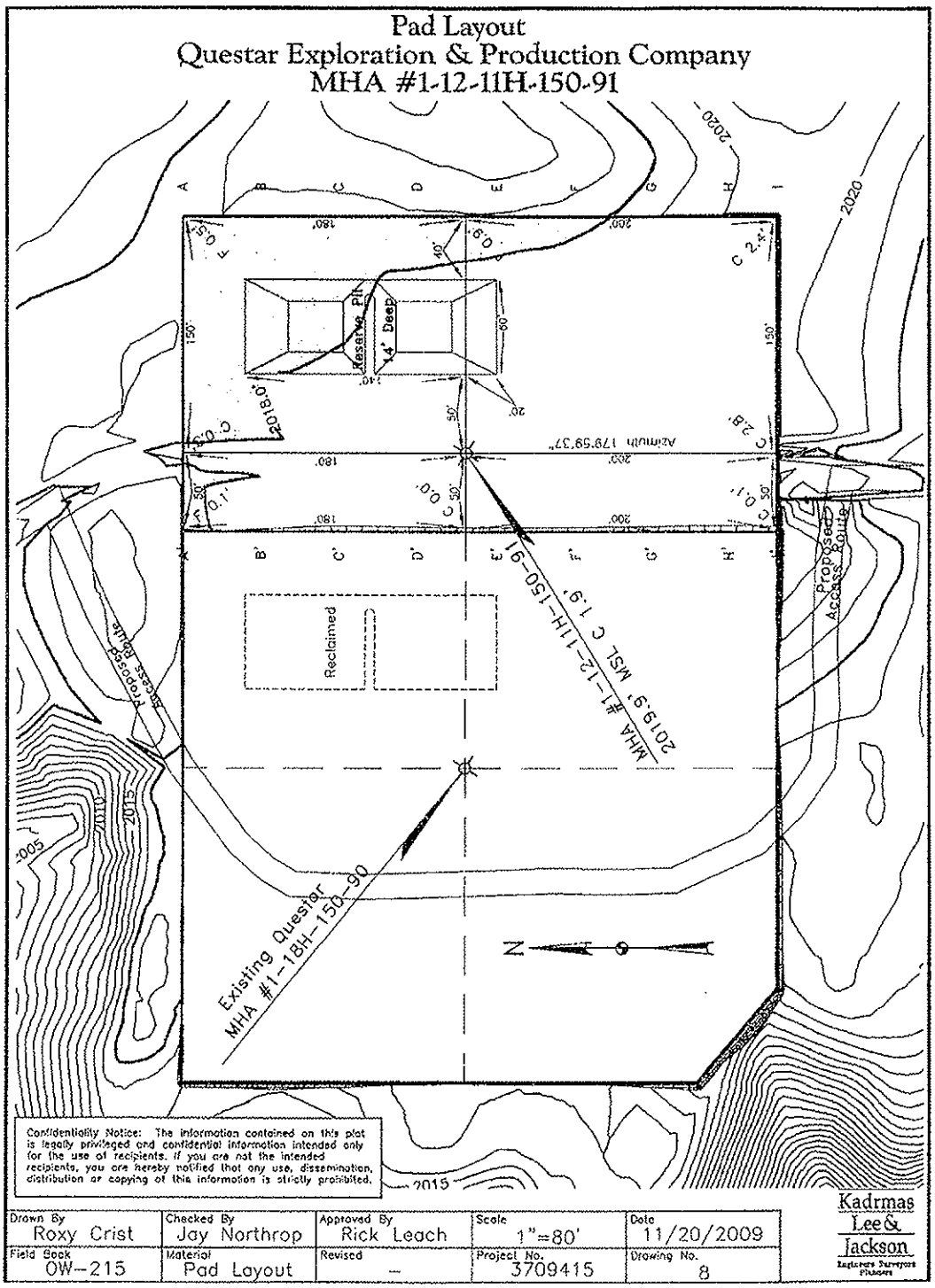


Figure 2, Pad Layout

5. Applicable National Environmental Policy Act (NEPA) Documents

Environmental Assessment:

Questar Exploration and Production Company, MHA #1-18H-150-90 Bakken Exploratory Oil Well, Fort Berthold Indian Reservation, September 2008.

6. Cultural Resources

The proposed project area has been surveyed for cultural resources as part of the NEPA process identified above. There was a finding of *No Historical Properties Affected.*

As all construction activities associated with the proposed well would utilize areas that have achieved cultural resource clearance, it is anticipated that the proposed project would not impact cultural resources.

7. NEPA Adequacy Criteria

This document has identified one previously prepared NEPA document, *Questar Exploration and Production Company, MHA #1-18H-150-90 Bakken Exploratory Oil Well, Fort Berthold Indian Reservation, September 2008,* which adequately describes the environmental consequences of the newly proposed actions described herein, and meets the following NEPA Adequacy Criteria:

1. The proposed actions are substantially the same actions and at the sites specifically analyzed in the existing NEPA document.
2. The range of alternatives is reasonable with respect to the current proposed actions in the existing NEPA document, which appropriately considers and analyzes current environmental concerns, interests, and resource values.
3. The existing analysis and conclusions are adequate in the existing NEPA document. The analysis is still valid in light of new studies and/or resource assessment information.
4. The methodology and analytical approach used in the existing NEPA document continues to be appropriate for the proposed actions.
5. The direct and indirect impacts of the proposed actions are unchanged from those identified in the existing NEPA document.
6. The cumulative impacts that would result from implementation of the proposed actions are unchanged from those analyzed in the existing NEPA document.
7. A 30-day comment period involving public input and interagency review was used in the development of the existing NEPA document.

Form 3160-3
(April 2004)

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31,2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. **14-20-A04-8596**
7420A48596

6. If Indian, Allottee or Tribe Name
Three Affilliated Tribes

7. If Unit or CA Agreement, Name and No.

1a. Type of Work: [X] DRILL [ ] REENTER

1b. Type of Well: [X] Oil Well [ ] Gas Well [ ] Other [X] Single Zone [ ] Multiple Zone

8. Lease Name and Well No.
MHA 1-12-11H-150-91

2. Name of Operator
QUESTAR EXPLORATION & PRODUCTION CO

9. API Well No.
Applied For

3a. Address
1050 17th Street, Suite 500
Denver, Colorado 80265

3b. Phone No. *(include area code)*
303.308.3068

10. Field and Pool, or Exploratory
Bakken

4. Location of well *(Report location clearly and In accordance with any State requirements. *)*
At surface **SHL: NENW of Sect 18: 871' FNL & 1901' FWL**
Lat N47.816303 - Long W102.249817 (NAD 83)
At proposed prod zone **BHL: NWSW of Sect. 11: 2140' FSL & 500' FWL**
Lat N47.824511 - Long W102.298453 (NAD 83)

11. Sec.,T.,R.,M.,or Blk.and Survey or Area
Sect. 18: T150N-R90W

14. Distance in miles and direction from the nearest town or post office*
15 miles southwest of Parshall, ND

12. County or Parish
McLean

13. State
North Dakota

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any)
SHL: 871'
BHL: 500'

16. No. of acres in lease
56,120.64 +/-

17. Spacing Unit dedicated to this well
Laydown 640: S/2 Sect. 12 & 11

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.
200'+/-

19. Proposed Depth
9744' TVD/21,604'MD

20. BLM/ BIA Bond No. on file
BIA #965 009 104

21. Elevations (Show whether DF. RT, GR, etc.)
2020' GR **2052' KB**

22. Aproximate date work will start*
May 15, 2010

23. Estimated duration
35 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by existing bond on file(see item 20 above).
5. Operator certification.
6. Such other site specific information and/ or plans as may be required by the a authorized officer.

25. Signature	Name *(Printed/ Typed)*	Date
	Debbie Stanberry	**1/13/2010**

Title
Regional Supervisor, Regulatory Affairs

Approved By *(Signature)*	Name *(Printed/ Typed)*	Date
Title	Office	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

* *(Instructions on page 2)*

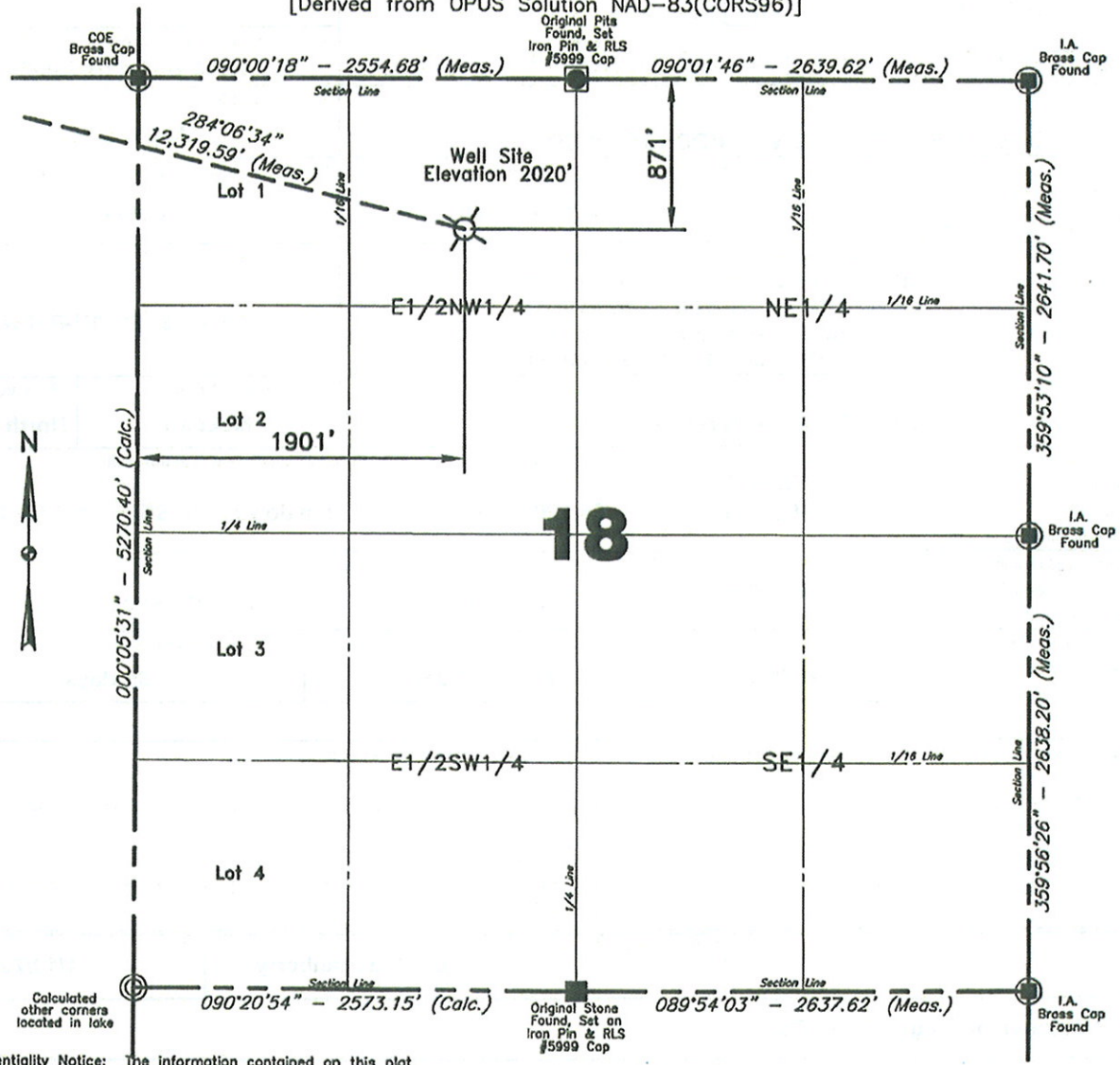
WELL LOCATION PLAT

Questar Exploration & Production Company
1050 17th Street, Suite 500 Denver, Colorado 80235

MHA #1-12-11H-150-91

871 feet from the north line and 1901 feet from the west line (surface location)
Section 18, T. 150 N., R. 90 W., 5th P.M.
2140 feet from the south line and 500 feet from the west line (bottom location)
Section 11, T. 150 N., R. 91 W., 5th P.M.
McLean County, North Dakota
Surface owner @ well site – Reuben Olson

Latitude 47°48'58.69" North; Longitude 102°14'59.34" West (surface location)
Latitude 47°49'28.24" North; Longitude 102°17'54.43" West (bottom hole location)
[Derived from OPUS Solution NAD–83(CORS96)]



Scale 1"=1000'

Confidentiality Notice: The information contained on this plat is legally privileged and confidential information intended only for the use of recipients. If you are not the intended recipients, you are hereby notified that any use, dissemination, distribution or copying of this information is strictly prohibited.

NOTE: All land corners are assumed unless otherwise noted. The well location shown hereon is not an as-built location.

Jay Northrop 10/19/2009
Surveyed By Date

I, Rick Leach, Professional Land Surveyor, N.D. No. 3496, do hereby certify that the survey plat shown hereon was made by me, or under my direction, from notes made in the field, and the same is true and correct to the best of my knowledge and belief.

RICK LEACH
REGISTERED LAND SURVEYOR
L.S. 3496
DATE 11/25/09
NORTH DAKOTA

Vertical Control Datum Used
Sea-Level Datum of NAVD 88
Based on elevation derived from OPUS Solution on GPS Base (iron rebar) in the NE1/4SE1/4 of Section 17, T150N, R 90W, on an azimuth of 073°32'03" a distance of 5,474.12' from the SE corner of Section 18, being at 2056.40' Elevation MSL.

Project No. 3709415
Book OW–215 Pg. 76–79 Staking

Professional Consulting Engineers and Surveyors
Registered in North Dakota, South Dakota Montana, Wyoming & Minnesota
Tele–Fax No. 701–483–2795
Bus. Phone No. 701–483–1284
P.O. Box 1118
677 27th Ave. E.
Dickinson, North Dakota 58602
Certificate of Authorization #C–061

Kadrmas Lee & Jackson
Engineers Surveyors Planners

HORIZONTAL SECTION PLAT

Questar Exploration & Production Company
1050 17th Street, Suite 500 Denver, Colorado 80235

MHA #1-12-11H-150-91

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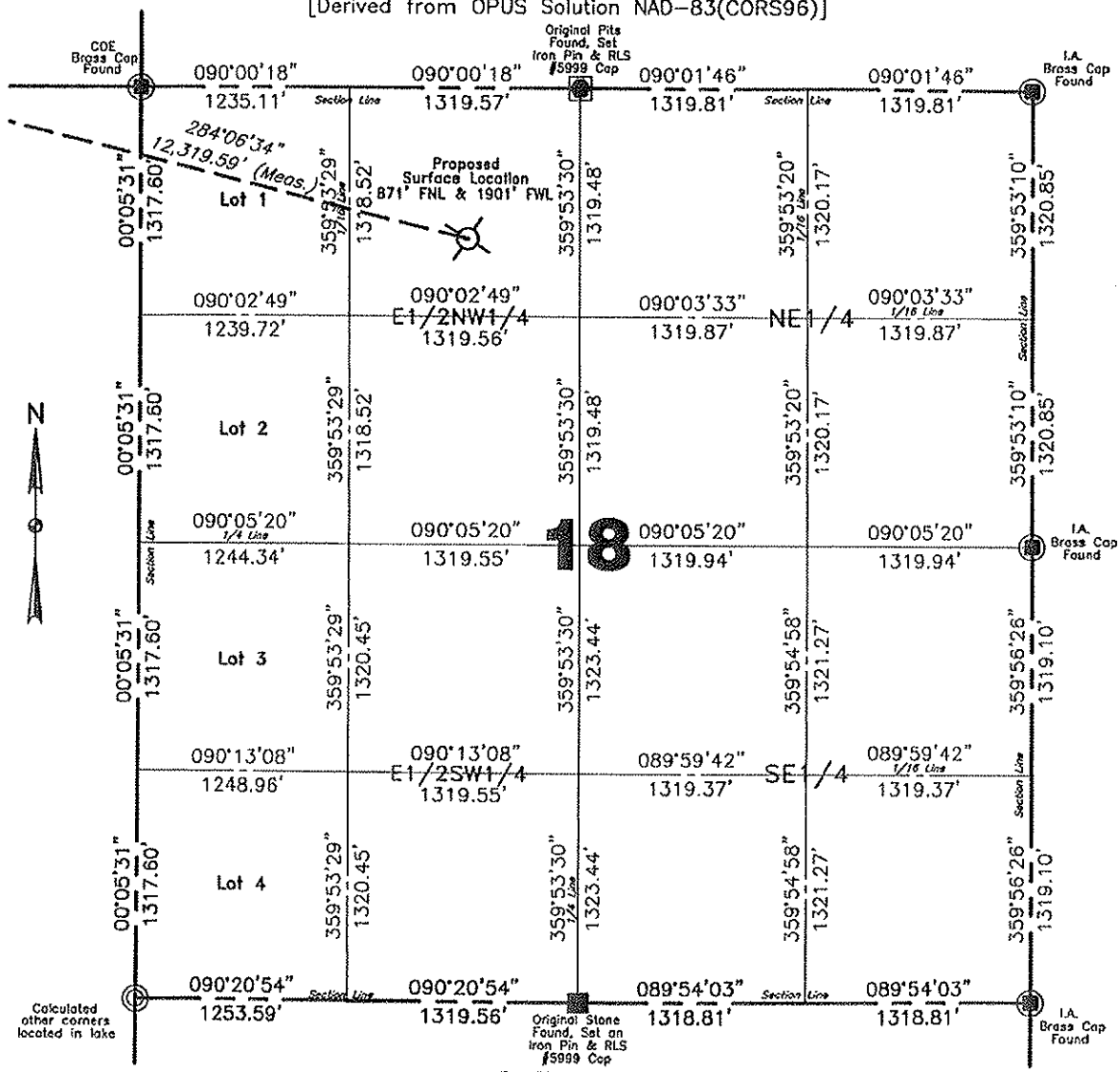

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All corners shown on this plat were found in the field during Questar Exploration & Production Company MHA #1-12-11H-150-91 oil well survey on October 19, 2009. Distances to all others are calculated. All azimuths are based on the south line of the SE1/4 of Section 18, being on an azimuth of 089°54'03".

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RICK LEACH
REGISTERED LAND SURVEYOR
L.S. 3496
11/25/09
NORTH DAKOTA

Surveyed By	Field Book
Jay Northrop	OW-215
Computed & Drawn By	Project No.
Roxy Crist	3709415

Kadrmas Lee & Jackson
Engineers Surveyors Planners

Nov 24, 2009 – 4:26pm – J:\oilfield\questar\3709415\cadd\ep\3709415BAS01.dwg

HORIZONTAL SECTION PLAT

Questar Exploration & Production Company
1050 17th Street, Suite 500 Denver, Colorado 80235

MHA #1-12-11H-150-91

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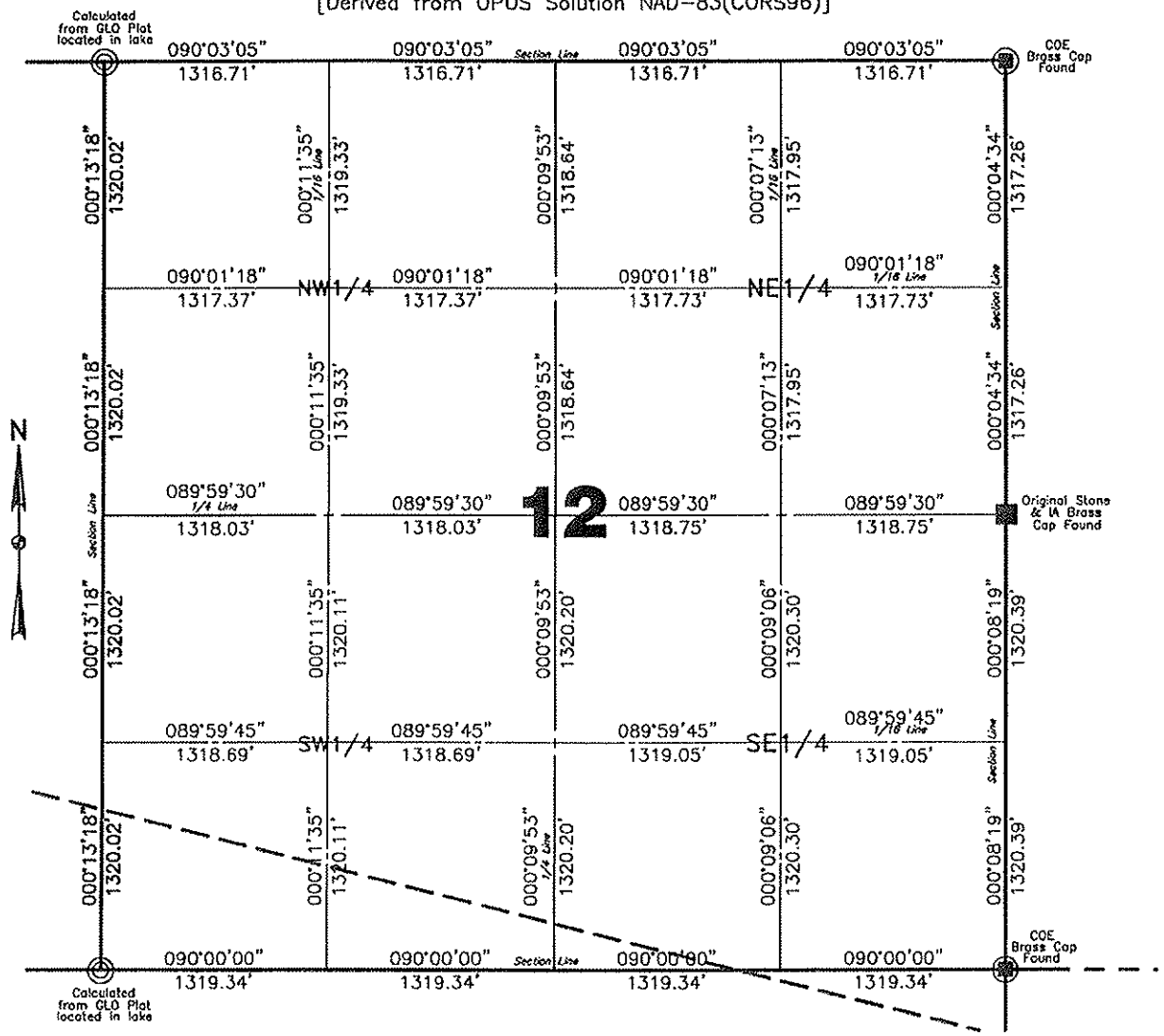

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RICK LEACH
REGISTERED LAND SURVEYOR
L.S. 3496
11/25/09
NORTH DAKOTA

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Surveyed By	Field Book
Jay Northrop	OW-215
Computed & Drawn By	Project No.
Roxy Crist	3709415

Kadrmas Lee & Jackson
Engineers Surveyors Planners

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HORIZONTAL SECTION PLAT

Questar Exploration & Production Company
1050 17th Street, Suite 500 Denver, Colorado 80235

MHA #1-12-11H-150-91

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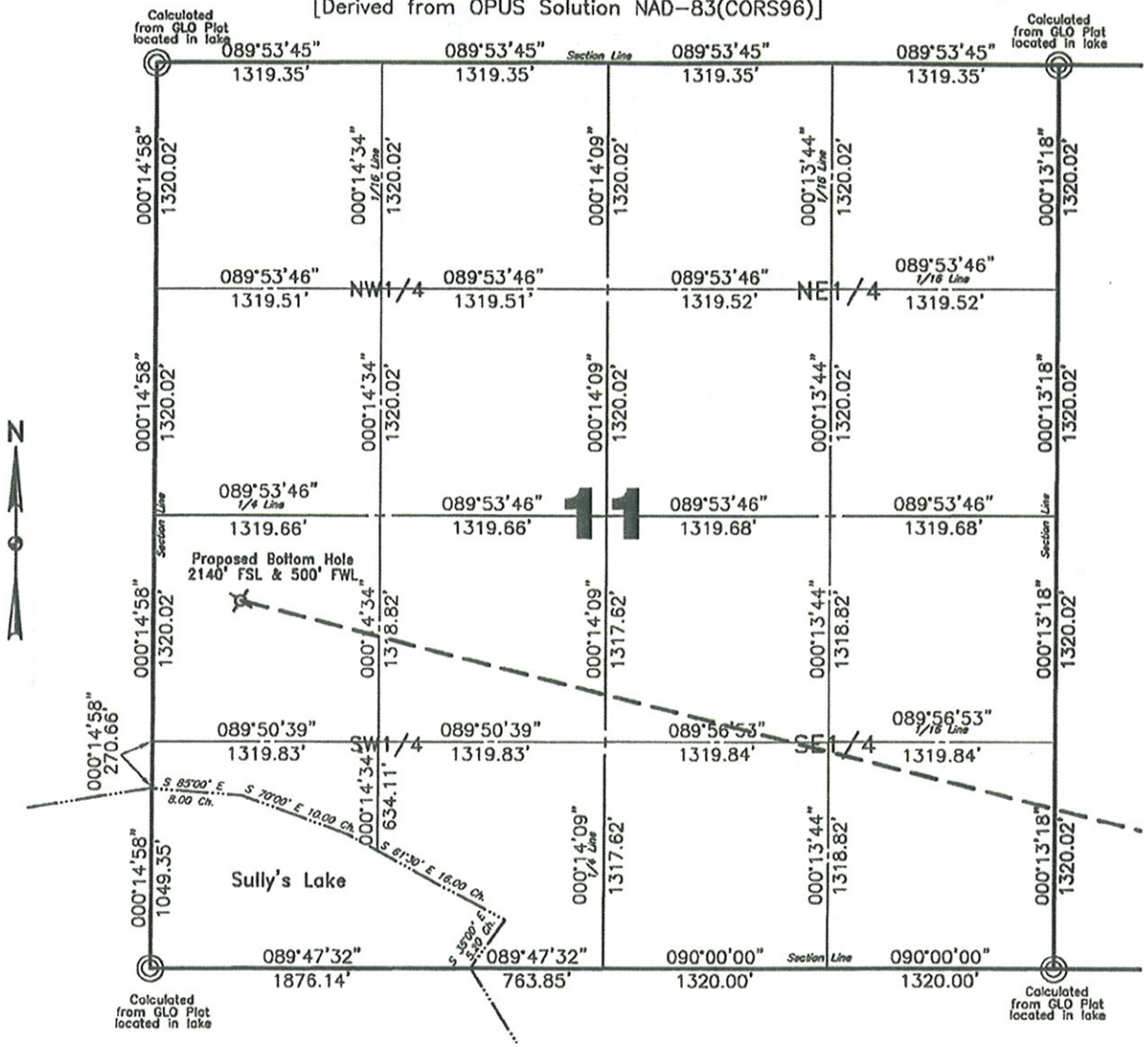

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RICK LEACH
REGISTERED LAND SURVEYOR
L.S. 3496
11/25/09
NORTH DAKOTA

All corners shown on this plat were found in the field during Questar Exploration & Production Company MHA #1-12-11H-150-91 oil well survey on October 19, 2009. Distances to all others are calculated. All azimuths are based on the east line of the SE1/4 of Section 12, being on an azimuth of 000°08'19".

Surveyed By	Field Book
Jay Northrop	OW-215
Computed & Drawn By	Project No.
Roxy Crist	3709415

Kadrmas Lee & Jackson
Engineers Surveyors Planners

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BOTTOM HOLE LOCATION PLAT

Questar Exploration & Production Company
1050 17th Street, Suite 500 Denver, Colorado 80235

MHA #1-12-11H-150-91

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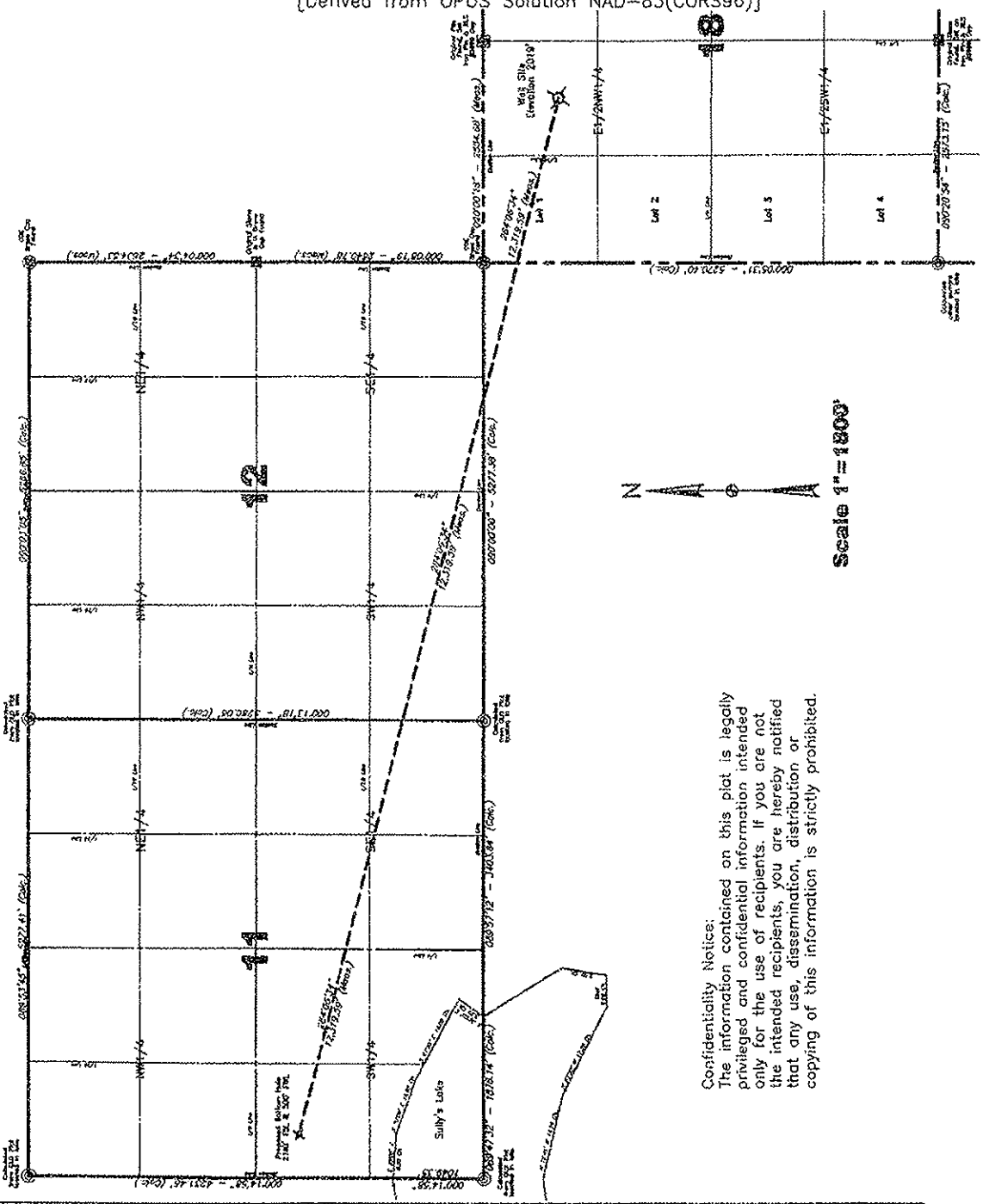

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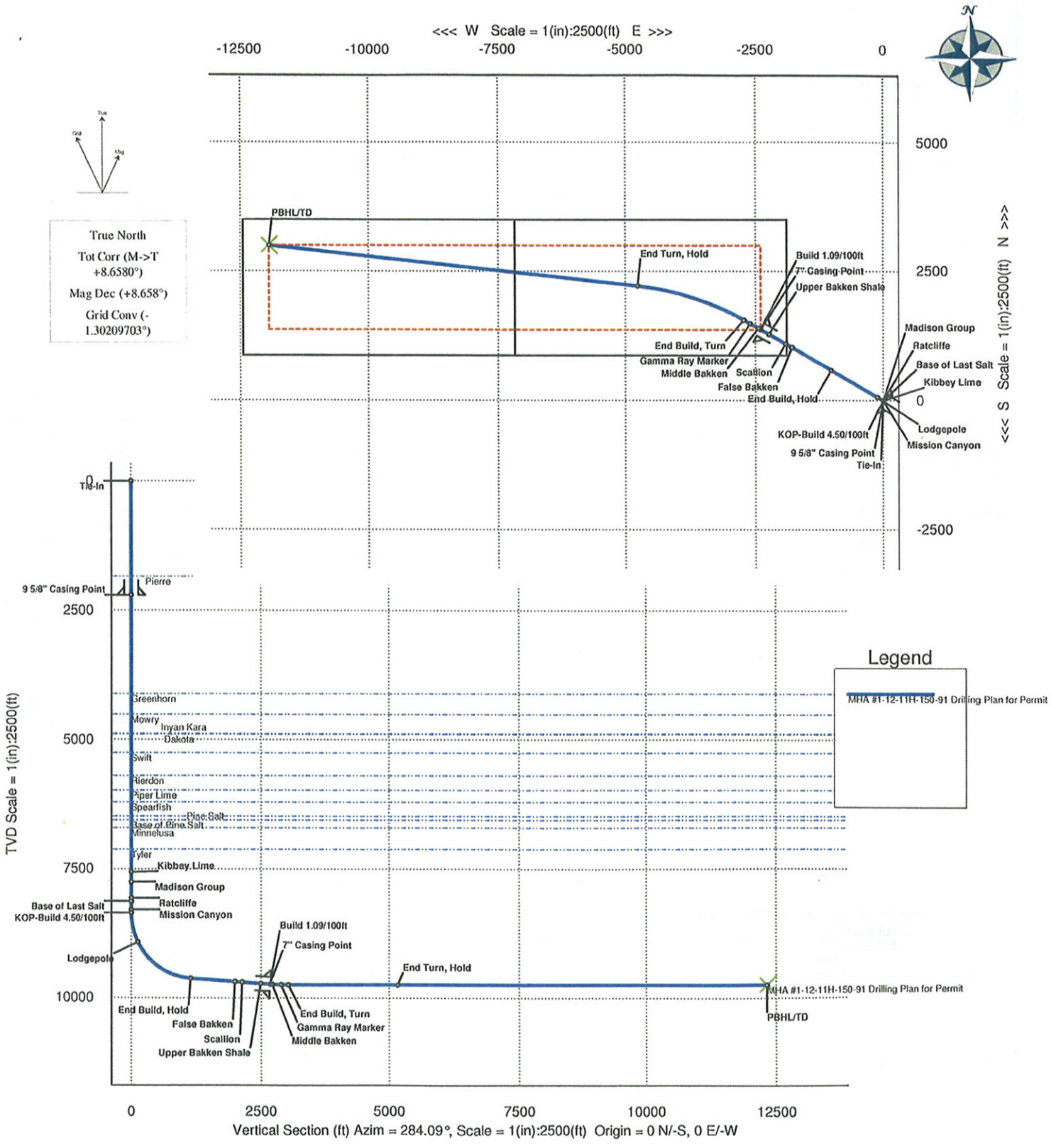
Surveyed By	Computed & Drawn By	Approved By	Scale	Date
Jay Northrop	Roxy Crist	Rick Leach	1"=1500'	11/17/2009
Field Book	**Material**	**Revised**	**Project No.**	**Drawing No.**
OW-215	B.H. Layout	–	3709415	5

Kadrmas Lee & Jackson
Engineers Surveyors Planners

Nov 20, 2009 - 9:54am - J:\oilfield\questar\3709415\cadd\ep\3709415BAS01.dwg

WELL	FIELD	STRUCTURE
MHA #1-12-11H-150-91	North Dakota	McLean County

Magnetic Parameters				Surface Location				Miscellaneous	
Model: IGRF 2005	Dip: 73.427°	Date: January 07, 2010		Lat: N47 48 58.690	Northing: 302642.67 ftUS	Grid Conv: -1.30209703°		Slot: MHA #1-12-11H-150-91	TVD Ref: KB (2044.60 ft above MSL)
	Mag Dec: +8.658°	FS: 57389.8 nT		Lon: W102 14 59.340	Easting: 1538627.76 ftUS	Scale Fact: 0.9999487626		Plan: MHA #1-12-11H-150-91 Drilling Plan for Permit	January 07, 2010



MHA #1-12-11H-150-91 Drilling Plan for Permit Proposal

Report Date:	January 7, 2010	Survey / DLS Computation Method:	Minimum Curvature / Lubinski
Client:		Vertical Section Azimuth:	284.090°
Field:	North Dakota	Vertical Section Origin:	N 0.000 ft, E 0.000 ft
Structure / Slot:	McLean County / MHA #1-12-11H-150-91	TVD Reference Datum:	KB
Well:	MHA #1-12-11H-150-91	TVD Reference Elevation:	2044.6 ft relative to MSL
Borehole:	Original Hole (est RKB)	Sea Bed / Ground Level Elevation:	1921.000 ft relative to MSL
UWI/API#:		Magnetic Declination:	8.658°
Survey Name / Date:	MHA #1-12-11H-150-91 Drilling Plan for Permit / January 7, 2010	Total Field Strength:	57389.566 nT
Tort / AHD / DDI / ERD ratio:	113.534° / 12523.18 ft / 6.499 / 1.285	Magnetic Dip:	73.427°
Grid Coordinate System:	NAD83 North Dakota State Planes, Northern Zone, US Feet	Declination Date:	January 07, 2010
Location Lat/Long:	N 47 48 58.690, W 102 14 59.340	Magnetic Declination Model:	IGRF 2005
Location Grid N/E Y/X:	N 302642.674 ftUS, E 1538627.756 ftUS	North Reference:	True North
Grid Convergence Angle:	-1.30209703°	Total Corr Mag North -> True North:	+8.658°
Grid Scale Factor:	0.99994676	Local Coordinates Referenced To:	Well Head

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)	Northing (ftUS)	Easting (ftUS)
Tie-In	0.00	0.00	299.73	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-60.27M	302642.67	1538627.76
Pierre	*1846.00*	*0.00*	*299.73*	*1846.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
9 5/8" Casing Point	*2204.00*	*0.00*	*299.73*	*2204.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Greenhorn	*4112.00*	*0.00*	*299.73*	*4112.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Mowry	*4509.00*	*0.00*	*299.73*	*4509.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Inyan Kara	*4883.00*	*0.00*	*299.73*	*4883.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Dakota	*4899.00*	*0.00*	*299.73*	*4899.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Swift	*5255.00*	*0.00*	*299.73*	*5255.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Rierdon	*5696.00*	*0.00*	*299.73*	*5696.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Piper Lime	*5975.00*	*0.00*	*299.73*	*5975.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Spearfish	*6211.00*	*0.00*	*299.73*	*6211.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Pine Salt	*6483.00*	*0.00*	*299.73*	*6483.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Base of Pine Salt	*6564.00*	*0.00*	*299.73*	*6564.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Minnelusa	*6704.00*	*0.00*	*299.73*	*6704.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Tyler	*7122.00*	*0.00*	*299.73*	*7122.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Kibbey Lime	*7559.00*	*0.00*	*299.73*	*7559.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Madison Group	*7753.00*	*0.00*	*299.73*	*7753.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Ratcliffe	*8062.00*	*0.00*	*299.73*	*8062.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Base of Last Salt	*8127.00*	*0.00*	*299.73*	*8127.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
Mission Canyon	*8290.00*	*0.00*	*299.73*	*8290.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*0.00*	*-60.27M*	*302642.67*	*1538627.76*
KOP-Build 4.50/100ft	8350.00	0.00	299.73	8350.00	0.00	0.00	0.00	0.00	0.00	0.00	-60.27M	302642.67	1538627.76
Lodgepole	*8937.64*	*26.44*	*299.73*	*8917.00*	*128.29*	*66.06*	*-115.68*	*133.22*	*299.73*	*4.50*	*0.00G*	*302711.35*	*1538513.61*
End Build, Hold	10261.11	86.00	299.73	9620.14	1140.57	587.37	-1028.52	1184.42	299.73	4.50	0.00G	303253.23	1537612.91
False Bakken	*11147.94*	*86.00*	*299.73*	*9682.00*	*1992.48*	*1026.09*	*-1796.74*	*2069.09*	*299.73*	*0.00*	*0.00G*	*303709.27*	*1536854.89*
Scallion	*11291.30*	*86.00*	*299.73*	*9692.00*	*2130.19*	*1097.01*	*-1920.92*	*2212.10*	*299.73*	*0.00*	*0.00G*	*303782.99*	*1536732.36*
Upper Bakken Shale	*11664.02*	*86.00*	*299.73*	*9718.00*	*2498.24*	*1281.40*	*-2243.80*	*2583.91*	*299.73*	*0.00*	*0.00G*	*303974.66*	*1536413.78*
7" Casing Point	*11850.38*	*86.00*	*299.73*	*9731.00*	*2667.27*	*1373.59*	*-2405.24*	*2769.82*	*299.73*	*0.00*	*0.00G*	*304070.49*	*1536254.48*
Build 1.09/100ft	11853.21	86.00	299.73	9731.20	2669.99	1374.99	-2407.69	2772.64	299.73	0.00	0.00G	304071.94	1536252.07
Middle Bakken	*11895.87*	*86.46*	*299.73*	*9734.00*	*2710.97*	*1396.10*	*-2444.65*	*2815.21*	*299.73*	*1.09*	*0.00G*	*304093.88*	*1536215.60*
Gamma Ray Marker	*12075.11*	*88.42*	*299.73*	*9742.00*	*2883.40*	*1484.90*	*-2600.13*	*2994.26*	*299.73*	*1.09*	*0.00G*	*304186.19*	*1536062.18*
End Build, Turn	12220.18	90.00	299.73	9744.00	3023.08	1556.83	-2726.10	3139.32	299.73	1.09	-90.00G	304260.96	1535937.89
End Turn, Hold	14378.90	90.00	276.20	9744.00	5161.76	2217.99	-4765.16	5256.07	294.96	1.09	-89.57G	304968.24	1533914.48
PBHL/TD	21604.05	90.00	276.20	9744.00	12318.48	2998.06	-11948.08	12318.48	284.09	0.00	0.00G	305911.29	1526751.54

Survey Type: Non-Def Proposal

Survey Error Model: SLB ISCWSA version 22 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)	MD To (ft)	EOU Freq	Survey Tool Type	Borehole -> Survey
0.00	123.60	1/100.00	SLB_MWD-STD-Depth Only	Original Hole (est RKB) -> MHA #1-12-11H-150-91 Drilling Plan for Permit
123.60	21604.05	1/100.00	SLB_MWD-STD	Original Hole (est RKB) -> MHA #1-12-11H-150-91 Drilling Plan for Permit

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QEP North Dakota Operations
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ONSHORE OIL & GAS ORDER NO. 1
Approval of Operations on Onshore
Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. Formation Tops

The estimated tops of important geologic markers are as follows:

Name	Subsea - GL	TVD - KB
Pierre	200	1847
Greenhorn	-2067	4113
Mowry	-2464	4510
Inyan Kara	-2838	4884
Dakota	-2854	4900
Swift	-3210	5256
Rierdon	-3651	5697
Piper Lime	-3930	5976
Spearfish	-4166	6212
Pine Salt (70'+/-)	-4438	6484
Minnelusa	-4659	6705
Tyler	-5077	7123
Kibbey Lime	-5514	7560
Madison Group	-5708	7754
Ratcliffe	-6017	8063
Base of Last Salt	-6082	8128
Mission Canyon	-6245	8291
Lodgepole	-6872	8918
False Bakken	-7651	9682
Scallion	-7661	9692
Upper Bakken Shale	-7673	9719
Middle Bakken	-7689	9735
Gamma Ray Marker	-7797	9743
Proposed Target Zone	-7699	9745
Lower Bakken Shale	-7729	9775

The horizontal wellbore will kick off in the Mission Canyon formation at approximately 8,350'. Please reference directional plans for Measured Depths of the formations listed above.

GL elevation is 2,018'; KB elevation is 2,044' (26' KBM).

DRILLING PROGRAM

2. Anticipated Depths of Oil Gas Water and Other Mineral Bearing Zones

The estimated depths at which the top and bottom of the anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Substance	Formation	MD Depth	TVD Depth
Oil	Middle Bakken	11,895'-21,604'	9,734'- 9,775'

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

3. Operator's Specification for Pressure Control Equipment:

A. 11" or 13-5/8" 5,000 psi double gate, 5,000 psi annular BOP (schematic included) from 9-5/8" casing point to total depth. The choice of BOP stacks is based on the drilling contractor's availability.

B. In the event the drilling contractor's substructure height is insufficient, the operator will eliminate the mud cross and flange the kill line and choke lines on the body of the blind rams to provide the same operational benefit that the mud cross allows.

C. A high pressure rotating head will be installed to allow drilling the Middle Bakken under balanced.

D. Functional test daily

E. All casing strings shall be pressure tested (0.2 psi/foot or 1500 psi, whichever is greater) prior to drilling the plug after cementing; test pressure shall not exceed the internal yield pressure of the casing.

F. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc. for a 5M system and individual components shall be operable as designed.

G. Two (2) chokes with one (1) remotely controlled from rig floor will be installed in the choke manifold and tested per item (F) above.

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QEP North Dakota Operations
MHA # 1-12-11H-150-91

DRILLING PROGRAM

4. Casing Design:

Hole Size	Csg. Size	Top (MD)	Bottom (MD)	Mud Weight	Wt. lb/ft	Grade	Thread	Cond.
22"	16"	sfc	80'	N/A	Steel	Cond.	None	Used
13-1/2"	9-5/8"	sfc	2,000'	9.0	36	J-55	STC	New
8-3/4"	7"	sfc	11,850'	10.0	32	HCL-80	LTC	New
6"	4-1/2"	8,350	21,604'	12.5	11.6	P-110	LTC	New

CASING STRENGTHS				COLLAPSE	BURST	TENSILE (min.)
9-5/8"	36 lb.	J-55	STC	2,020 psi	3,520 psi	394,000 lb.
7"	32 lb.	HCL-80	LTC	10,400 psi	9,060 psi	738,000 lb.
4-1/2"	11.6 lb.	P-110	LTC	7,580 psi	10,690 psi	279,000 lb.

MINIMUM DESIGN FACTORS:

COLLAPSE: 1.125
BURST: 1.10
TENSION: 1.80

Area Fracture Gradient: 0.9 psi/foot
Maximum anticipated mud weight: 12.5 ppg
Maximum surface treating pressure: 6350 psi

5. Cementing Program

16" Conductor:
Cement to surface with construction cement.

9-5/8" Surface Casing: 0' – 2,000' (MD)
Lead Slurry: 0' – 1500'. 425 sxs (1245 cu ft) Econocem System + 0.125 lbs/sk Poly-E-Flake (LCM) Slurry wt: 11.5 ppg, slurry yield: 2.933 ft^3/sx, slurry volume: 13-1/2" hole + 70% excess.
Tail slurry: 1500'- 2000' 280 sxs (415 cu ft) Swiftcem System + 0.125 Poly-E-Flake (LCM) Slurry Wt: 14.2 ppg. Slurry yield: 1.482 ft^3/sx, slurry volume: 13-1/2" hole + 70% excess.

7" Intermediate Casing: 4,500' – 11,850' (MD)
Lead Slurry: 4500' – 6000'. 70 sks (295 cu ft) Tuned Light System w/ 0.125 lbs./sx Poly-E-flake (LCM) Slurry wt: 10.8 ppg, slurry yield: 4.36 ft^3/sx, slurry volume: 8-3/4" hole + 30% excess.

DRILLING PROGRAM

Tail Slurry: 6,000' – 11,850'. 710 sks (1145 cu ft) Tail Bondcem System w/ 0.4% HR-5 (Retarder) Slurry wt: 15.6 ppg, Slurry yield: 1.61 ft^3/sk, Slurry volume: 8-3/4" hole + 30% excess.

4-1/2" Production Casing: 8,350' – 21,604' (MD)
Lead/Tail Slurry: Uncemented

6. **Auxiliary Equipment**

A. Kelly Cock – yes
B. Float at the bit – yes
C. Monitoring equipment on the mud system – visually and PVT/Flow Show
D. Full opening safety valve on the rig floor – yes
E. Rotating Head – yes
F. All other operations and equipment for air/gas drilling shall meet specifications in Onshore Order #2, Section III Requirements, subsection E. Special Drilling Operations and Onshore Order #1.

Surface hole will be drilled with air, air/mist, foam, or mud depending on hole conditions. Intermediate hole will be drilled with oil base mud (OBM). The Production hole will be OBM or brine water depending on hole and local downhole pressure conditions. No chromates will be used. Maximum anticipated mud weight is 12.5 ppg.

No minimum quantity of weight material will be required to be kept on location.

PVT/Flow Show will be used from base of surface casing to TD.

Gas detector will be used from surface casing depth to TD.

7. **Testing, logging and coring program**

A. Cores – none anticipated

B. DST – none anticipated

C. Logging:
- Mud logging – 7500' to TD.
- If shows warrant while drilling - run a Triple Combo from surface casing to +/-35 degree in 8-3/4" open hole.
- MWD/GR in build and horizontal lateral.

D. Formation and Completion Interval: Middle Bakken interval, final determination of completion will be made by analysis of Mud Logs, GR Log and shows.

E. Stimulation – Stimulation will be designed for the particular area of interest as encountered.

DRILLING PROGRAM

8. Anticipated Abnormal Pressures and Temperatures, Other Potential Hazards

No abnormal temperatures or pressures are anticipated. No H2S has been encountered in or known to exist from previous wells drilled to similar depths in the general area. Maximum anticipated bottom hole pressure equals approximately 5825 psi. Maximum anticipated bottom hole temperature is 210° F.

9. Additional Information For Oil Base Mud

A. See attached diagram of well pad layout. A reserve pit will be constructed for this location. This pit will be constructed so that a minimum of two vertical feet of freeboard exists above the top of the pit at all times and at least one-half of the holding capacity will be below ground level. The pit will be lined with a synthetic reinforced liner, 30 millimeters thick, with sufficient bedding used to cover any rocks prior to putting any fluids into the pit. The pad will be designed so that runoff from adjacent slopes does not flow into the reserve pit. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place.

B. Oil-base mud will be mixed in the closed circulating system and transferred to four 500-bbl tanks on location for storage prior to and after drilling operations. Drip pans will be installed below the rotary beams on the substructure and can be viewed on site from the cellar area. As the intermediate and production section of the hole is drilled, the cuttings transported to the surface with the drilling fluid will be mechanically separated from the drilling fluid as waste by shale-shakers and then cleaned/dried via a mud cleaner and/or centrifuge. These separated cuttings will be transferred to the cuttings pit nearest the shakers and stored in this cuttings pit for solidification after the rig is released and moved off location.

C. Plastic material will underlay the rig, oil base mud/diesel storage tanks and mud pits. All tanks on location will be placed inside of berms. Any oily waste fluids and sediments generated at the work site during drilling operations or when cleaning the fluid containment system after drilling will also be placed into the cuttings half of the pit.

D. All rig ditches will be lined and directed to a lined sump for fluid recovery. A drip pan will be installed on the BOP stack, a mud bucket will be utilized as needed on connections and a vacuum system will be used on the rig floor for fluid recovery in those areas.

E. Once all waste has been placed in the cuttings portion of the pit and all necessary approvals obtained, the oilfield waste management consultant Soli-Bond or a similar company will mobilize equipment and personnel to the site to perform the cement based solidification/stabilization process in-situ for encapsulation. Soil will be backfilled over the processed material used on the cuttings side of the pit and that portion of the pit area will be returned to the existing grade bordering the pit.

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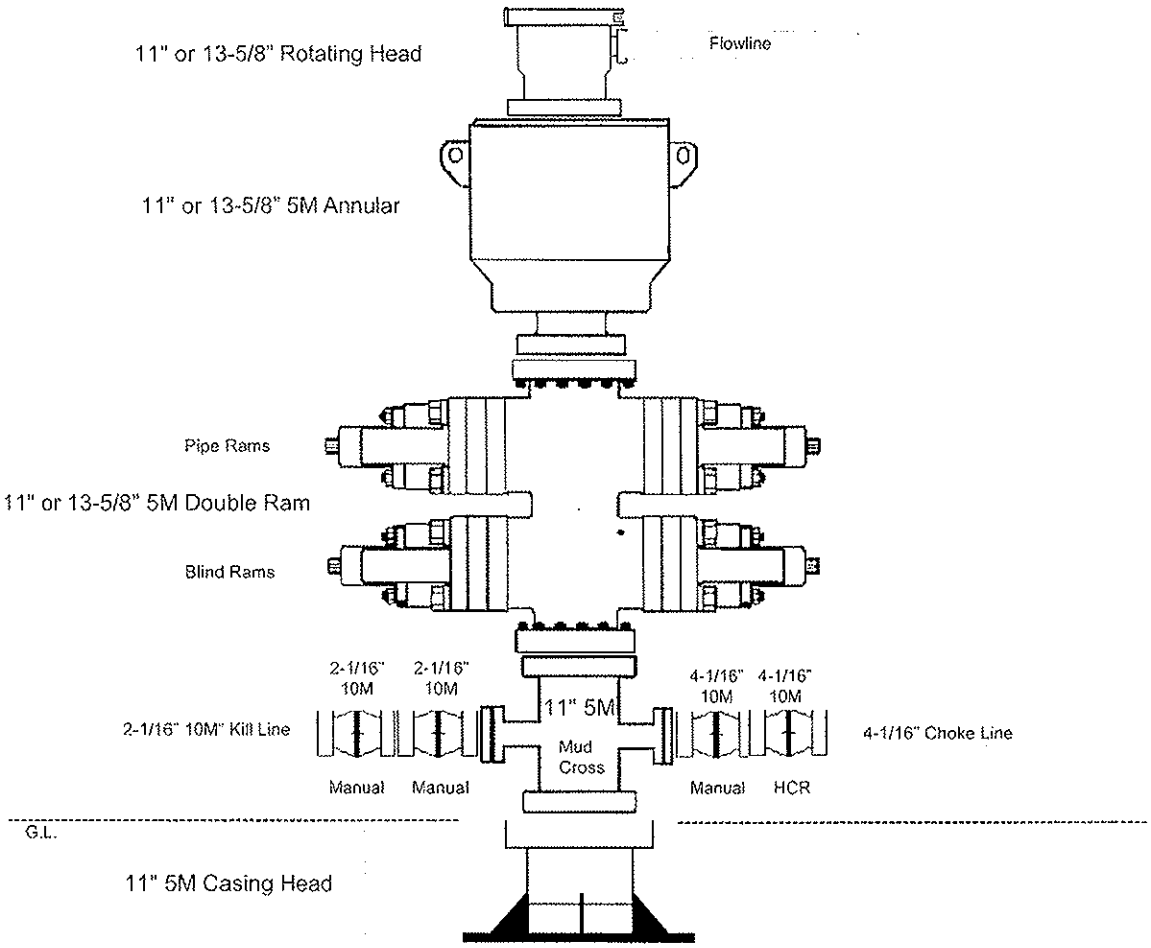
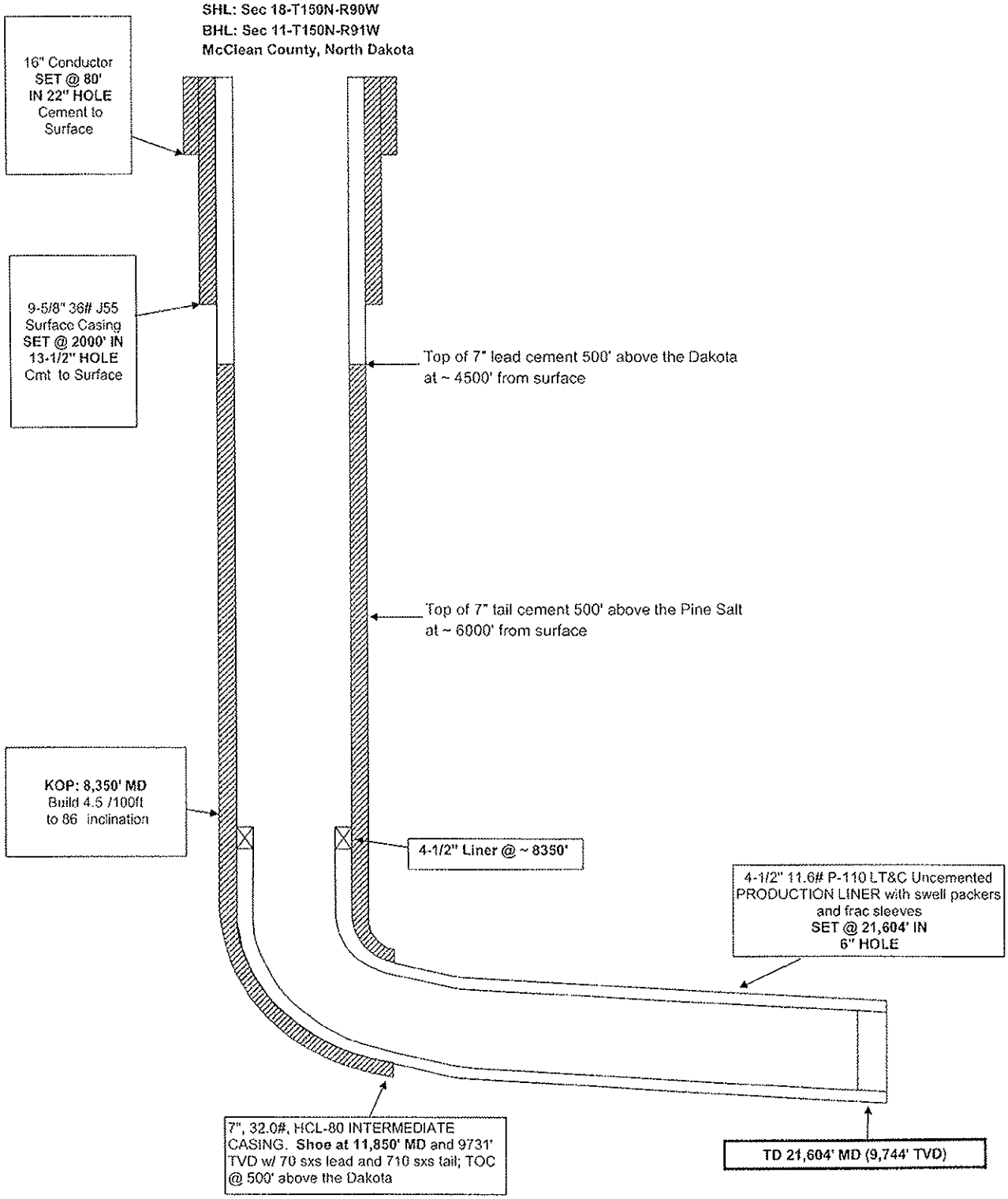
DRILLING PROGRAM



MHA 1-12-11H-150-91

SHL: Sec 18-T150N-R90W
BHL: Sec 11-T150N-R91W
McClean County, North Dakota



Questar Exploration & Production Company

13-Point Surface Use Plan of Operations

MHA 1-12-11-150-91
SHL: 871' FNL, 1901' FWL
NENW, Section 18, T. 150 N., R. 90 W.
BHL: 2140' FSL, 500' FWL
NWSW, Section 11, T. 150 N., R. 91 W.
McLean County, North Dakota
Allotted Lease # 7420A48596

1. Existing Roads

a. Access roads and location of well – See Maps "A" & "B".

b. Directions to the location from the town of Parshall, North Dakota:

Travel Southerly on Highway 37 for 8 miles to an existing gravel road. Turn right and travel west for 4 miles, follow the curve 1 mile south to the SE corner of Section 8: T150N-R90W. Turn left and the follow the section line road to the MHA 1-18H-150-90 well location. The MHA 1-12-11H-150-91 will be drilled from the expanded MHA 1-18H-150-90 well pad.

c. All existing roads will be maintained in the same or better condition as exist prior use by Questar.

2. Access Roads to be Constructed and Reconstructed

a. No new access roads are proposed to constructed for this project.

b. Any new access road will be crowned and ditched, with a minimum running surface of fourteen (14) feet. The maximum disturbed width will be sixty-six (66) feet. Topsoil will be stripped and windrowed prior to road construction and respread in the borrow area.

c. Maximum grade of the road will be less than 8%.

d. Any additional culverts required will be added as needed. A cattle guard will be placed at the entrance and exit of the location to ensure traffic flow for continues access to the MHA 1-13-14H-150-91 and proposed MHA 1-19H-150-90.

e. After road construction is completed and topsoil is pulled back down the cut slope, the travel way will be surfaced prior to moving in the drilling rig, if necessary, due to weather conditions.

f. Roads constructed on allotted lands will be constructed and maintained in accordance with the BLM minimum standards for a resource road as described in BLM Manual 9113, unless otherwise specified.

3. Location of Existing Wells within a One-mile Radius

a. There are no known water wells within the project area.

b. There are no known injection or disposal wells within the project area.

c. There are 2 known producing wells in the area.

d. There is 1 known drilling well in the area.

e. There are no known plugged or abandoned wells in the area

f. There are no known shut-in wells in the area.

g. There are no known monitoring or observation wells in the area.

4. Location of Existing and/or Proposed Facilities – See Exhibit 2

On Well Pad

a. There are no existing facilities that will be utilized for this well. To ensure the surface footprint is minimized, the facilities for the well (should it be a producing well) will be co-located with the existing facilities of the MHA 1-18H-150-90 facilities.

b. The proposed production facility layout will be submitted via sundry notice.

c. Production facilities will be located on the disturbed portion of the well pad.

d. All flowlines from the well site to the battery site will be buried below frost line depth.

e. Tank batteries shall be surrounded by an impervious dike or Sioux containment system of sufficient size to hold 110% the capacity of the largest tank in the battery and still allow one (1) foot of freeboard.

f. In the event of production, the following items will occur:

1. The entire location will be fenced to prevent livestock and wildlife entry.

2. The unused areas of the well location, if necessary, will be re-contoured to appropriate configurations (that allow lease operations and alleviate steep cut-and-fill slopes, minimizing accelerated erosion).

5. Location and Type of Water Supply

Water will be obtained from a commercial supplier in the area. Water will be transported by water trucks using existing and proposed access roads to the location.

6. Source of Construction Materials

a. Native soils from the road and location will be used for construction materials. Surfacing materials will be purchased from commercial suppliers in the area.

b. No material will be removed from federally-owned sources.

7. Methods of Handling Waste Disposal

a. Cuttings and drilling fluids will be placed on a lined pit which will be constructed with at least one-half (0.5) of its holding capacity below ground level. The reserve pit will be designed to prevent the collection of surface runoff. The pit will be lined with a thirty-millimeter polyethylene liner to prevent leakage of fluids. The bottom of the pit shall be smooth and free of any sharp rocks.

If the pit has a rocky bottom, it shall be bedded with a material such as soil, straw, or hay to avoid the possibility of puncturing the liner. The liner will be rolled in place and recurred at the ends, i.e. buried on the top of the pit berms.

After construction and prior to use, the reserve pit will be fenced "stock-tight" on all four sides and will be flagged to keep livestock and wildlife from entering. The fence will be removed on the front side during drilling and re-installed at the time of rig release, at which time the pit will again be flagged.

After drilling and completion operations are completed, the reserve pit and its contents will be reclaimed per Point 9 of the Drilling Program submitted for the MHA 1-12-11H-150-91. Additional information can be found in the attachment titled "Questar Exploration and Production Company Wellsite Cuttings Management Plan".

b. Any hydrocarbons produced during completion work will be contained in test tanks and removed from location at a later date. No hydrocarbons will be allowed in the reserve pit.

c. Sewage will be handled in self-contained, chemical-treated portable toilets and contents hauled off location to a WDEQ-authorized sanitary disposal facility in accordance with state and local regulations.

d. Garbage and other trash will be contained in a portable trash cage, which will be totally enclosed with small mesh wire. Cage and contents will be transported to an approved sanitary landfill. Any trash will be picked up if scattered and contained in trash cage as soon as practical after rig is moved off.

e. Hazardous Materials: Questar E&P maintains a file, per 29 CFR 1910.1200 (g) containing current *Material Safety Data Sheets* (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be transported across these lands may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives).

8. Ancillary Facilities

If the well is productive, Questar will consider the feasibility of installing oil and gas pipelines and a powerline.

9. Well Site Layout

a. Survey Plats – See Exhibits 1 and 2

b. Cut-and-Fill Cross Sections – See drawings 7, 8, & 9

c. Location Layout – See drawing 8

d. Typical Rig Layout – See drawing 10

e. All equipment and vehicles will be confined to the access road, well pad, and areas specified in the APD.

f. Prior to construction, six (6) inches of topsoil (or maximum available) will be removed from the entire site and stockpiled, as shown on the well pad diagram.

g. The location (including the reserve pit) will be designed to prevent the collection of surface runoff.

h. The construction program and design are on the attached cut, fill, and cross section diagrams – See drawings 6-12.

10. Surface Reclamation Plans

a. The reserve pit will be reclaimed in accordance with Point 9 of the Drilling Program prepared for and submitted with the MHA 1-12-11H-150-91 APD.

b. Prior to reclamation or abandonment of the well site and road, a joint inspection of the disturbed area will be held with the private surface owner.

In the event of a dry hole, the location will be re-contoured; the topsoil will be evenly distributed over the entire location and revegetation will be conducted as directed by the private surface owner.

In the event of production, those areas not needed for operations will be re-contoured and water-barred to support vegetation and reduce erosion. All disturbed areas will be seeded with a seed mixture agreed upon by the private surface owner.

c. Questar E&P will control noxious weeds on the location in conformance with the EPA and BLM guidelines.

d. Reclamation will begin upon completion of drilling operations. Complete reclamation will depend on weather conditions.

11. Surface Ownership

Well Site and Access Road

NE1/4, E1/2NW1/4, Section 18, T. 150 N., R. 90 W., McLean County, ND
Reuben Olson
7250 35th Street NW
Parshall, North Dakota 58770
Phone: 701-862-3214

N1/2 Section 17, T. 150 N., R. 90 W. McLean County, ND
Three Affiliated Tribes
404 Frontage Road
New Town, North Dakota 58763

12. Other Information

a. A Class III Cultural Resources inventory has been completed by SWCA Environmental Consultants and submitted under separate cover.

If historic or archaeological materials are uncovered, Questar E&P will suspend all operations that might further disturb such materials and immediately contact the Authorized Officer.

b. A "Sundry Notice and Report of Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations.

c. The dirt contractor will be provided with a complete copy of the approved APD with COAs.

13. Lessee's or Operator's Representative and Certification

Mike Stahl – Engineer
Questar Exploration and Production Company
1050 17th Street, Suite 500
Denver, Colorado 80265
Phone: 303.308.3070

Debbie Stanberry – Regional Supervisor, Regulatory Affairs
Questar Exploration and Production Company
1050 17th Street, Suite 500
Denver, Colorado 80265
Phone: 303.308.3068
Cell: 303.241.1336
Fax: 303.573.0290
E-mail: Debbie.Stanberry@Questar.com

Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operation proposed herein will be performed by Questar Exploration and Production Company and its contractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for filing of a false statement.

_____ _____

Debbie Stanberry
Questar Exploration and Production Company

Date

Questar Exploration & Production Company
MHA #1-12-11H-150-91
Sec. 18, T. 150 N., R. 90 W., 5th P.M.
McLean County, North Dakota

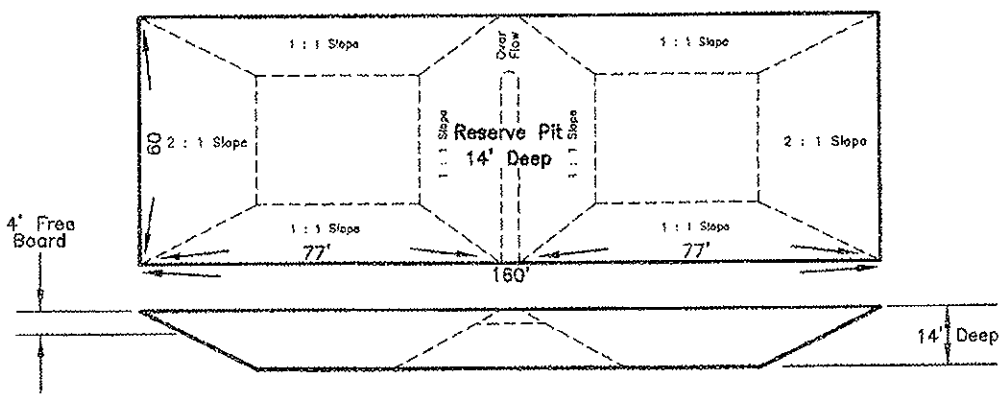
Well Site Elevation	2019.9' MSL
Well Pad Elevation	2018.0' MSL

Excavation	3,325 C.Y.
Plus Pit	2,800 C.Y.
	6,125 C.Y.
Embankment	330 C.Y.
Plus Shrinkage (+30%)	100 C.Y.
	430 C.Y.
Stockpile Pit	2,800 C.Y.
Stockpile Top Soil (6")	1,430 C.Y.
Road Embankment from Pad or Stockpile with Pit	1,465 C.Y.
Disturbed Area for Pad	1.77 Acres

NOTE :
All cut end slopes are designed at 1:1 slopes & all fill end slopes are designed at 1 1/2:1 slopes

Well Site Location

871' FNL
1901' FWL

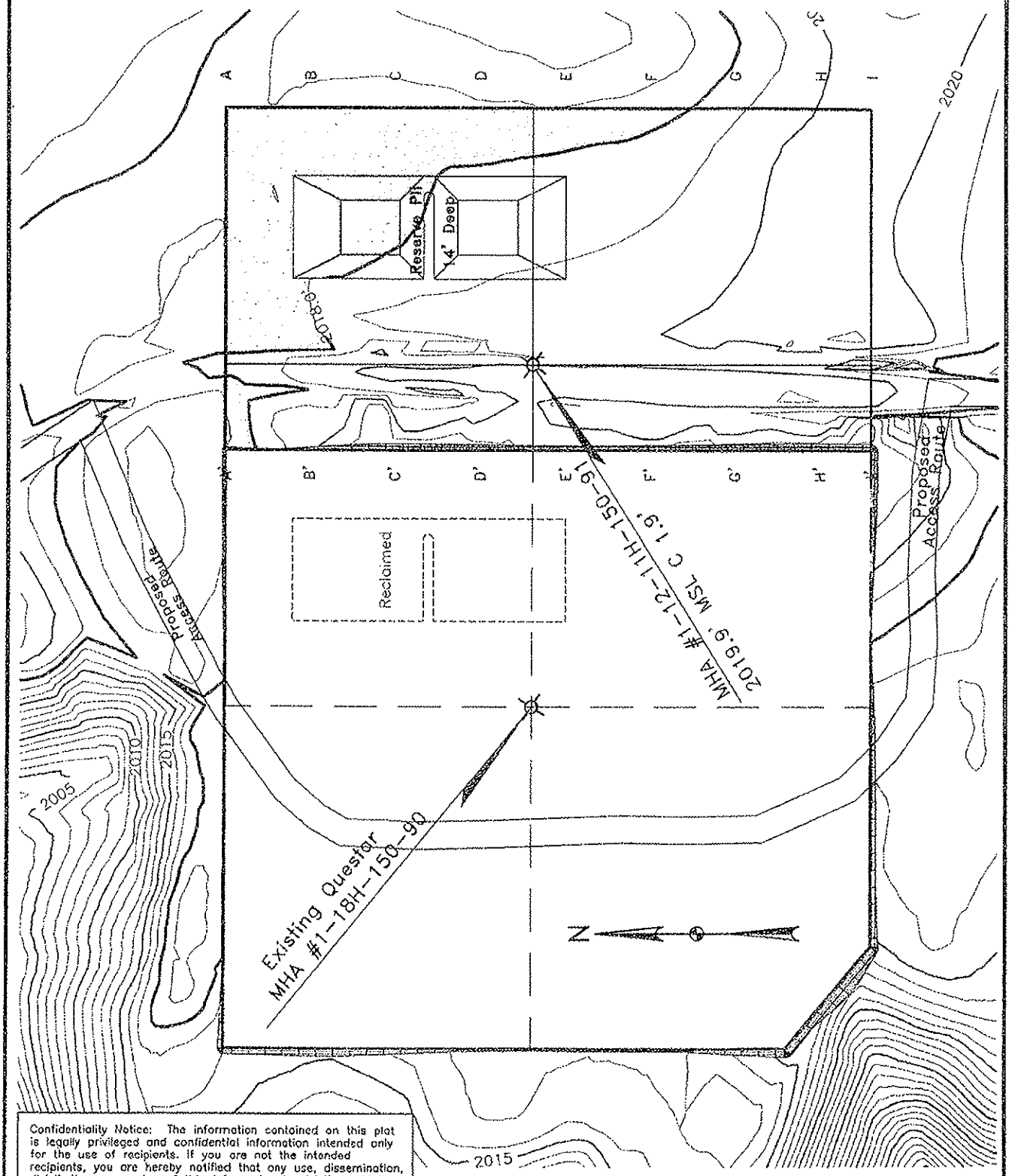


Drawn By	Checked By	Approved By	Scale	Date
Roxy Crist	Jay Northrop	Rick Leach	None	11/20/2009
Field Book	**Material**	**Revised**	**Project No.**	**Drawing No.**
OW-215	Quantities	--	3709415	6

Kadrmas Lee & Jackson
Engineers Surveyors Planners

Nov 25, 2009 - 7:34am - J:\oilfield\questar\3709415\cadd\ep\3709415SAS02.dwg

Original Ground
Questar Exploration & Production Company
MHA #1-12-11H-150-91



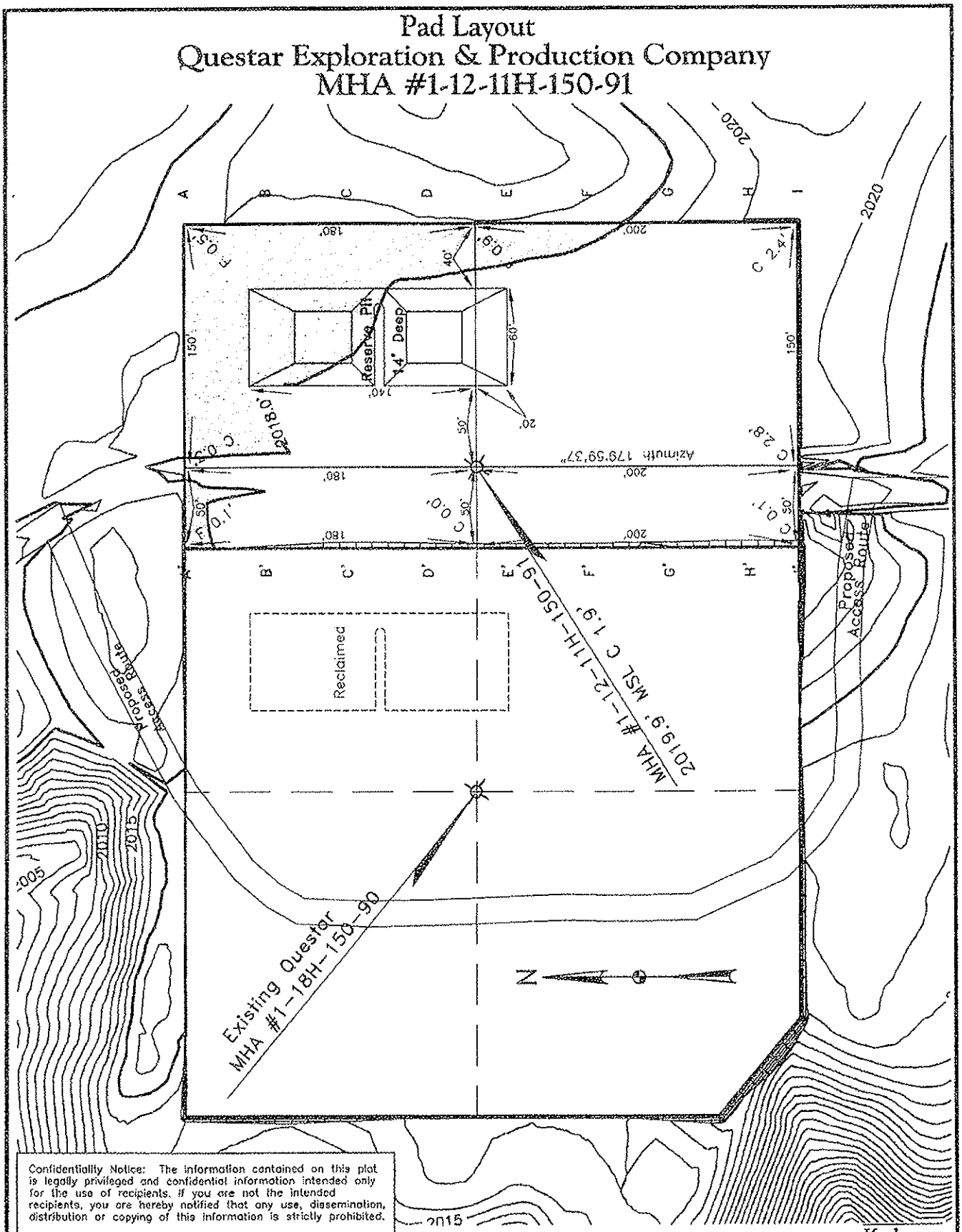
Confidentiality Notice: The information contained on this plat is legally privileged and confidential information intended only for the use of recipients. If you are not the intended recipients, you are hereby notified that any use, dissemination, distribution or copying of this information is strictly prohibited.

Drawn By	Surveyed By	Approved By	Scale	Date
Roxy Crist	Jay Northrop	Rick Leach	1"=80'	11/20/2009
Field Book	**Material**	**Revised**	**Project No.**	**Drawing No.**
OW-215	Original Ground	-	3709415	7

Kadrmas Lee & Jackson
Engineers Surveyors Planners

Nov 25, 2009 - 7:35am - J:\oilfield\questar\3709415\cadd\cp\3709415BAS02.dwg

Pad Layout
Questar Exploration & Production Company
MHA #1-12-11H-150-91

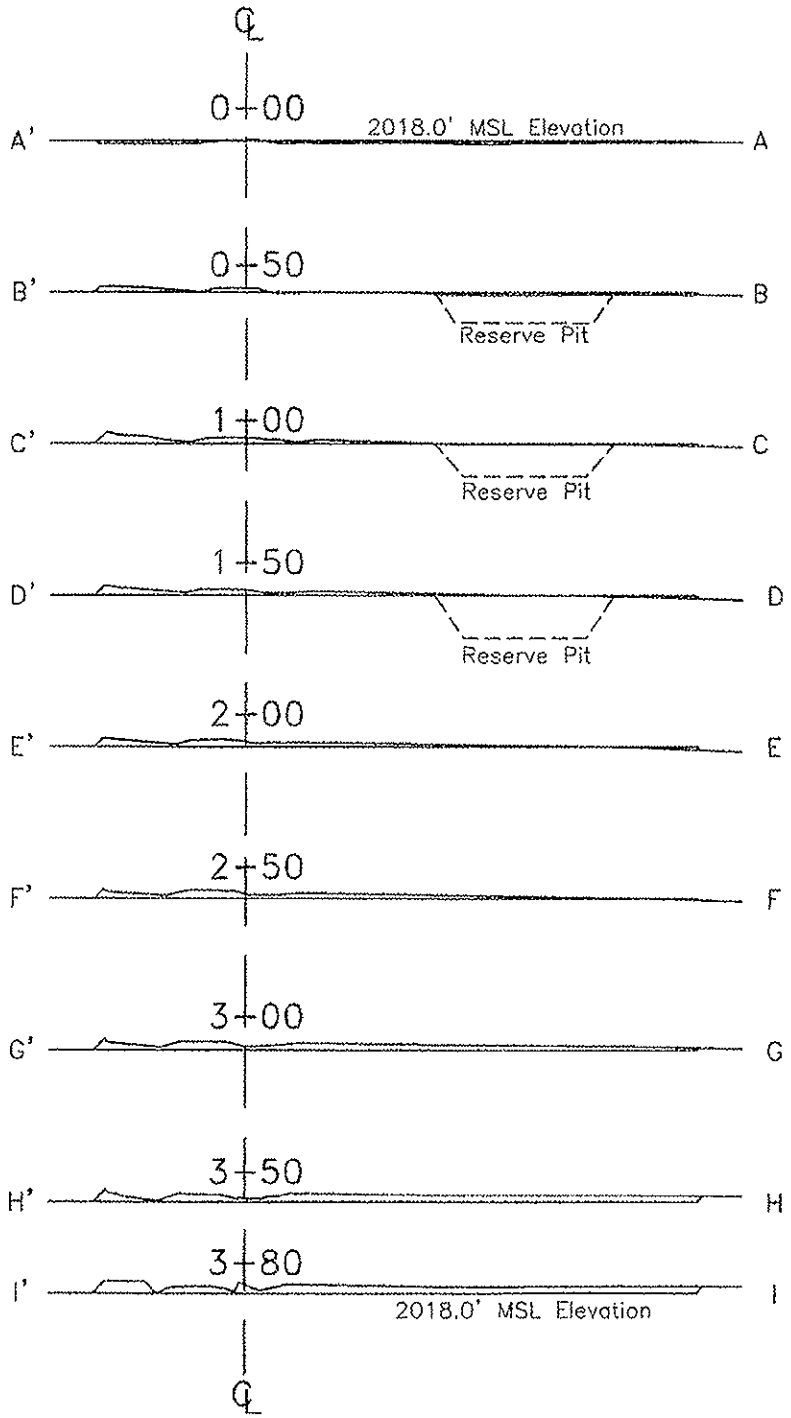


Drawn By	Checked By	Approved By	Scale	Date
Roxy Crist	Jay Northrop	Rick Leach	1"=80'	11/20/2009
Field Book	**Material**	**Revised**	**Project No.**	**Drawing No.**
OW-215	Pad Layout	—	3709415	8

Kadrmas Lee & Jackson
Engineers Surveyors Planners

Nov 25, 2009 - 7:35am - J:\oilfield\questar\3709415\cadd\ep\3709415BAS02.dwg

Pad Cross Sections
Questar Exploration & Production Company
MHA #1-12-11H-150-91



Drawn By	Checked By	Approved By	Scale	Date
Roxy Crist	Jay Northrop	Rick Leach	1"=60'	11/20/2009
Field Book	**Material**	**Revised**	**Project No.**	**Drawing No.**
OW-215	Pad Layout	-	3709415	9

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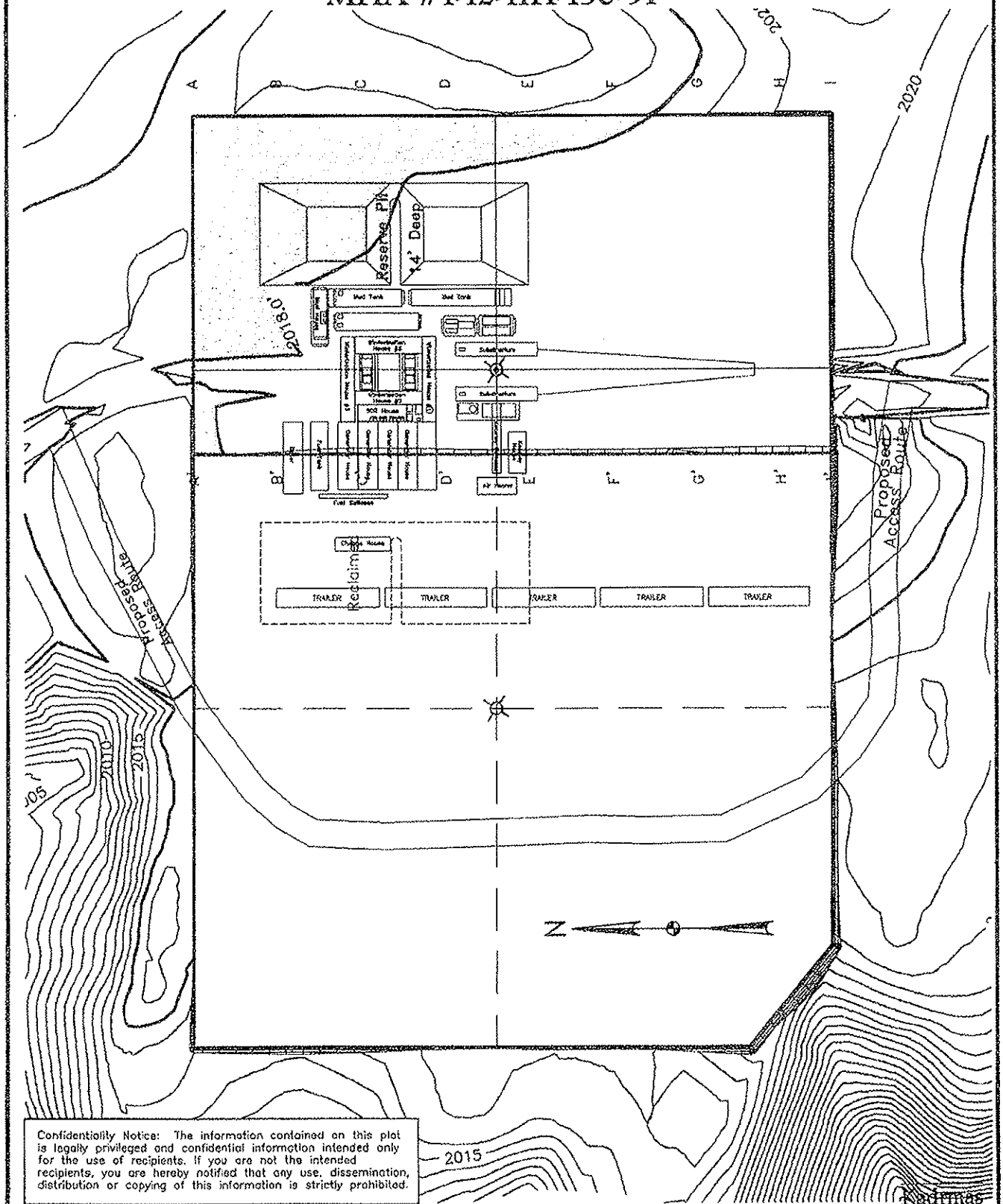
Nov 23, 2009 - 9:30am - J:\oilfield\Questar\3709415\cadd\ep\3709415BAS02.dwg

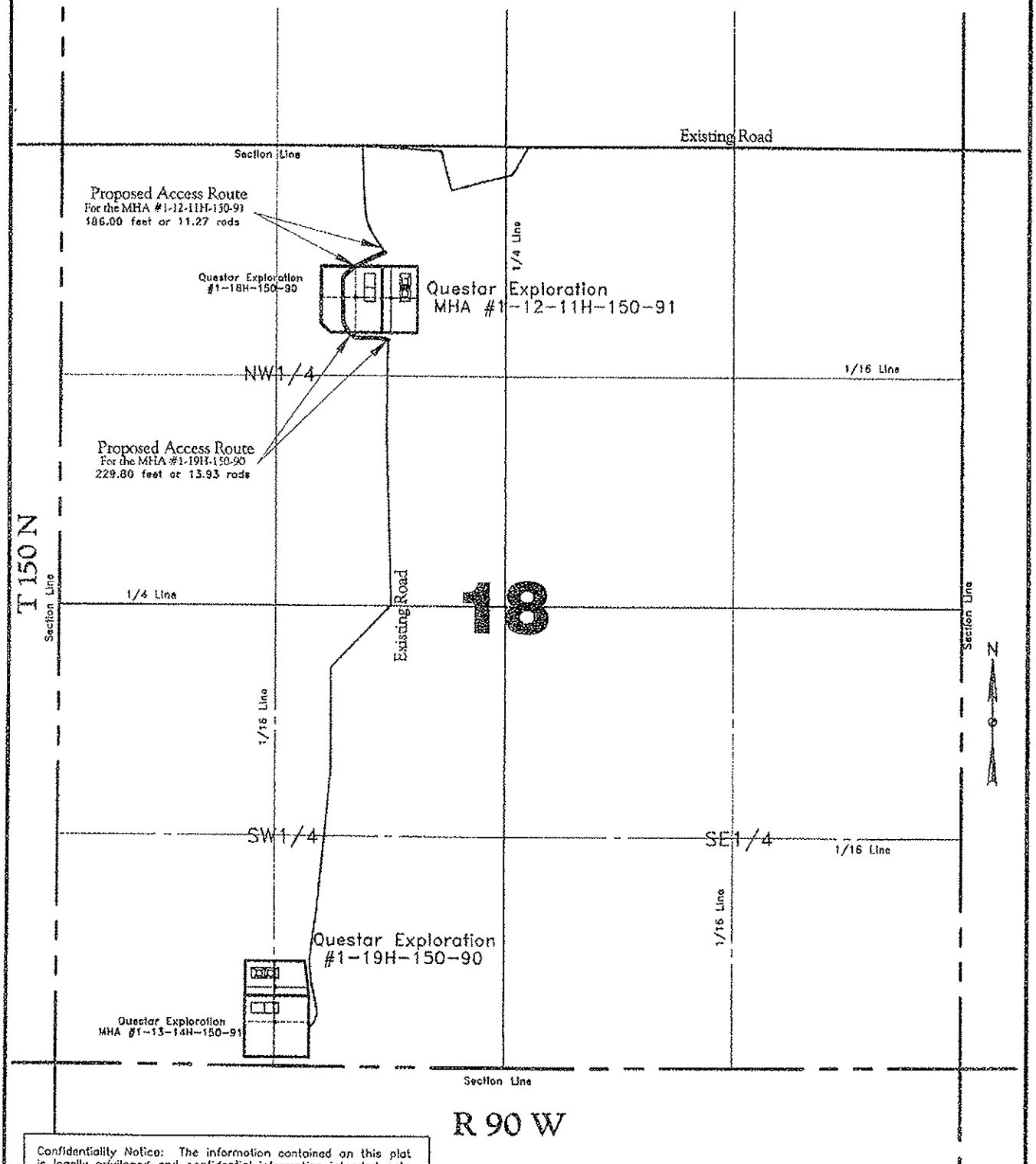
Rig Layout
Questar Exploration & Production Company
MHA #1-12-11H-150-91



Drawn By	Checked By	Approved By	Scale	Date
Roxy Crist	Jay Northrop	Rick Leach	1"=80'	11/20/2009
Field Book	**Material**	**Revised**	**Project No.**	**Drawing No.**
OW-215	Rig Layout	-	3709415	10

Kadrmas Lee & Jackson
Engineers Surveyors Planners

Access Road Layouts
Questar Exploration & Production Company
MHA #1-12-11H-150-91



Drawn By	Checked By	Approved By	Scale	Date
Roxy Crist	Jay Northrop	Rick Leach	1"=800'	11/20/2009
Field Book	**Material**	**Revised**	**Project No.**	**Drawing No.**
OW-215	Access Road	—	3709415	11

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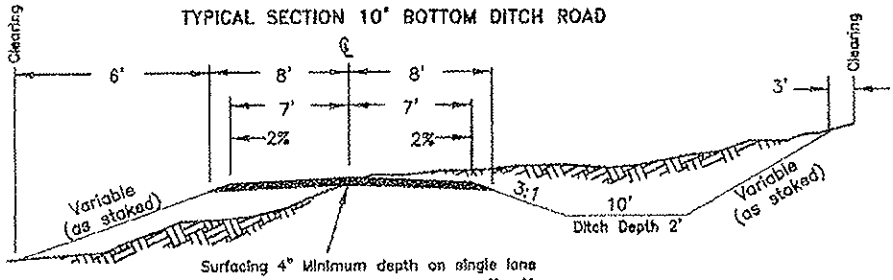
Engineers Surveyors Planners

Nov 25, 2009 - 7:37am - J:\oilfield\questar\3709415\cadd\op\3709415BAS02.dwg

Roadway Typical Sections
Questar Exploration & Production Company
MHA #1-12-11H-150-91

TYPICAL SECTION 10' BOTTOM DITCH ROAD



TYPICAL "B"

No Scale

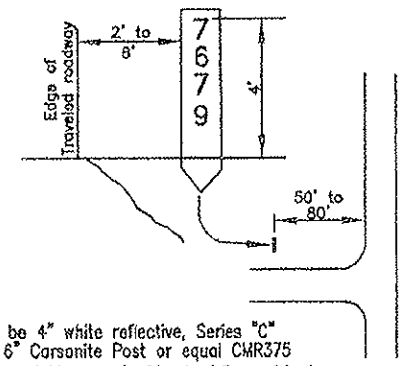
FILL SLOPES
3:1 Under 4' Height
2:1 Over 4' Height
(--) Slopes steeper than 2:1 will be subject to FS approval

FILL WIDENING
2' to 5' high/add 1'
Over 5' high/add 2'

CURVE WIDENING
130 / R

CUT SLOPES
3:1 Under 10' height
2:1 10' to 20' height
(--) Variable over 20' height W/FS approval

TYPICAL SECTION VERTICAL ROUTE MARKER



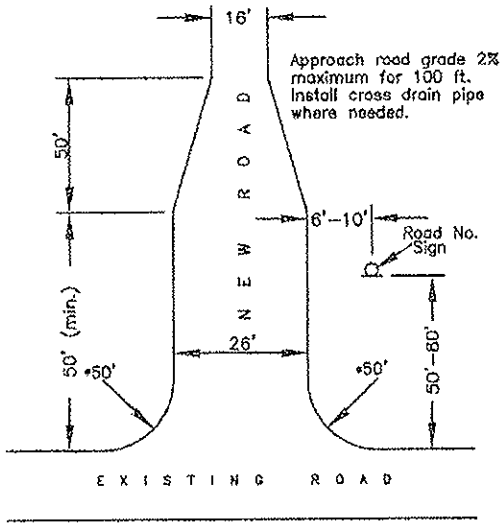
Letters shall be 4" white reflective, Series "C" on Brown 6' 6" Carsonite Post or equal CMR375

Figure 11-28.- Typical Signage for Vertical Route Markers

TYPICAL "F"

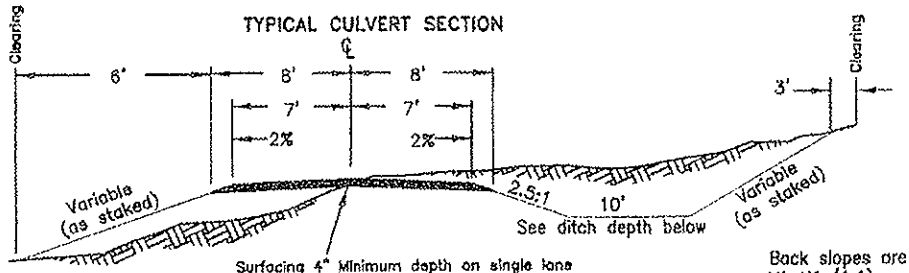
No Scale

TYPICAL APPROACH ROAD CONNECTION



*As noted on road sheets

TYPICAL CULVERT SECTION



Fill slopes are V1 H1.5 (1.5:1) or as staked

Ditch width shall be the larger of the following:
A. Standard ditch width
B. 2 times the pipe diameter
C. 4.25'

Ditch depth shall be: CMP diameter	Ditch depth
18"	2.5'
24"	3.0'
36"	4.0'
48"	5.0'

Back slopes are V1 H1 (1:1) or as staked

TYPICAL "A"

No Scale

Drawn By	Surveyed By	Approved By	Scale	Date
Roxy Crist	Jay Northrop	Rick Leach	None	11/20/2009
Field Book	**Material**	**Revised**	**Project No.**	**Drawing No.**
OW-215	Road Typical	-	3709415	12

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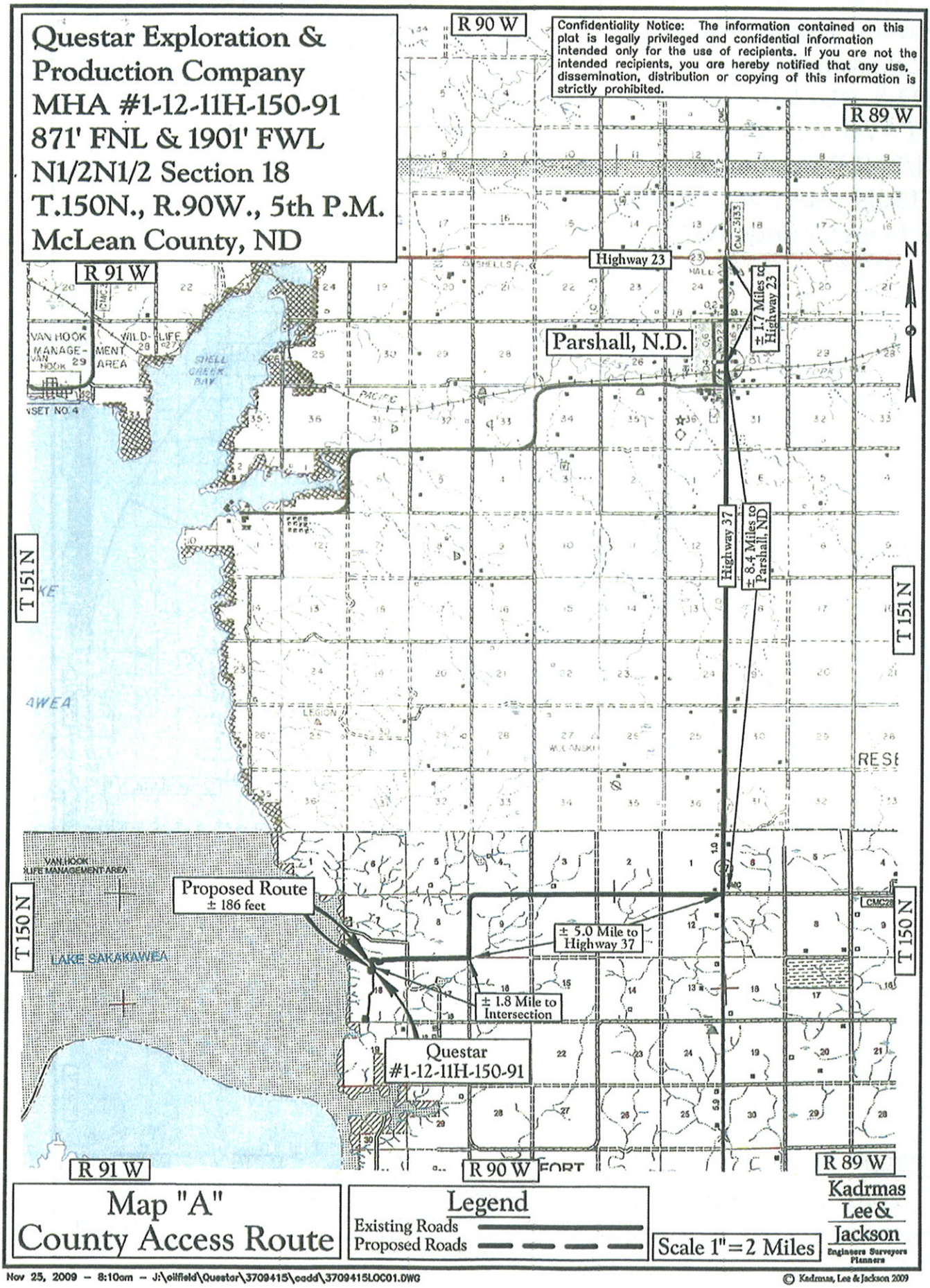

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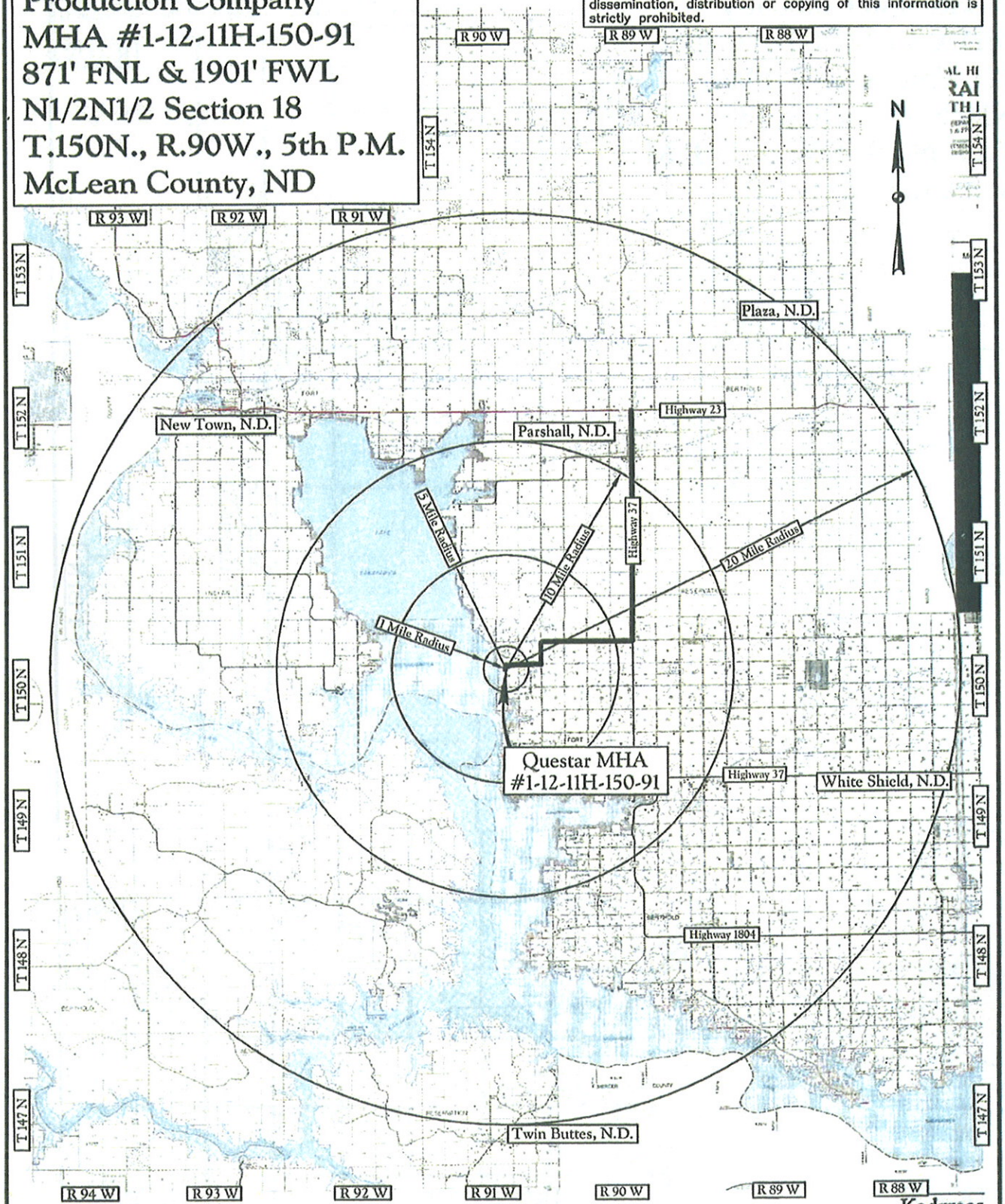
Questar Exploration & Production Company
MHA #1-12-11H-150-91
871' FNL & 1901' FWL
N1/2N1/2 Section 18
T.150N., R.90W., 5th P.M.
McLean County, ND



Map "A-Radius" County Access Route

Legend

Existing Roads

Proposed Roads

Scale 1"=6 Miles

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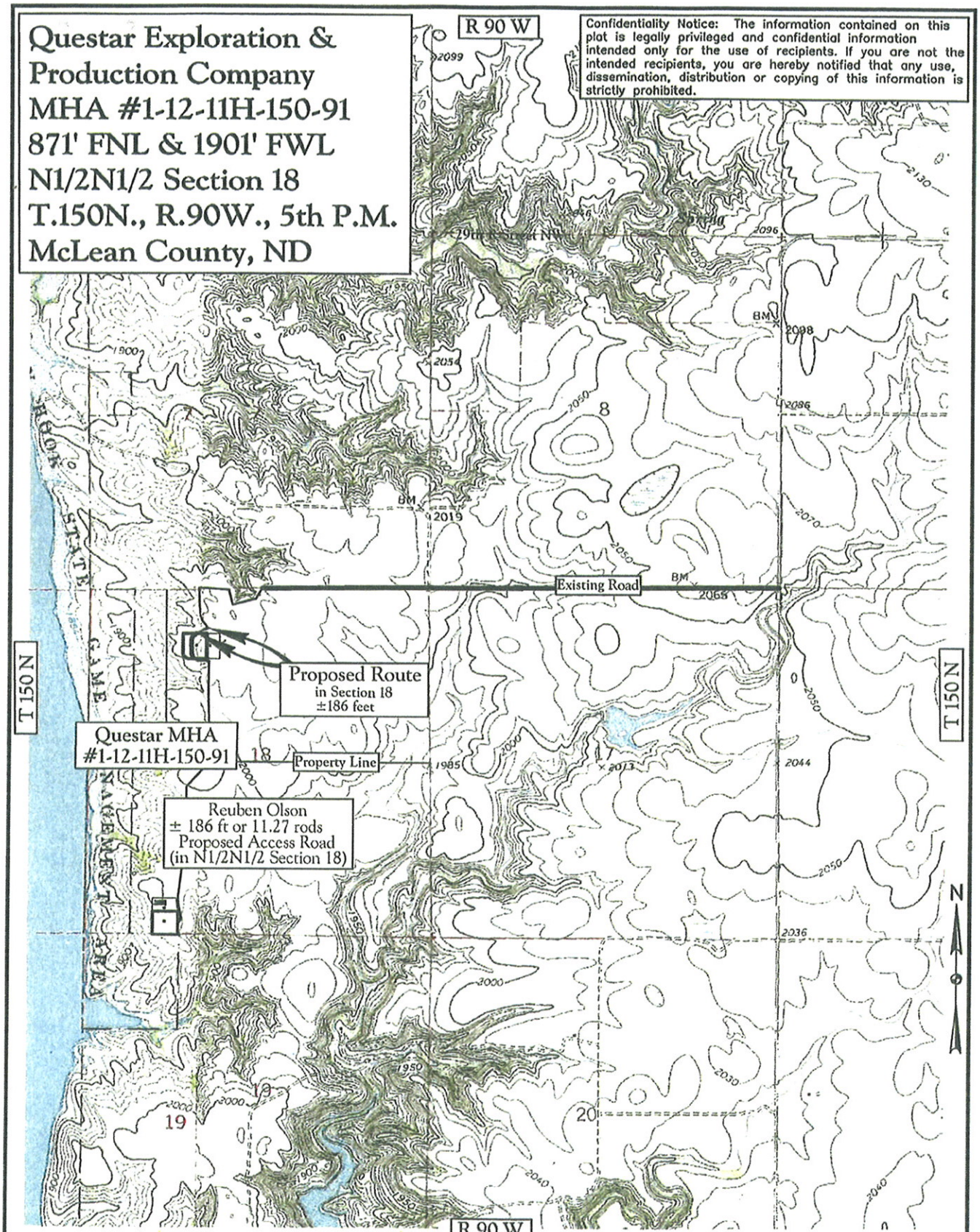
Engineers Surveyors Planners

Nov 25, 2009 – 8:23am – J:\oilfield\Questar\3709415\cadd\3709415LOC01.DWG

Questar Exploration & Production Company
MHA #1-12-11H-150-91
871' FNL & 1901' FWL
N1/2N1/2 Section 18
T.150N., R.90W., 5th P.M.
McLean County, ND



Map "B"
Quad Access Route

Legend
Existing Roads
Proposed Roads

Scale 1"=2000'

Kadrmas Lee & Jackson
Engineers Surveyors Planners

Nov 25, 2009 - 8:14am - J:\oilfield\Questar\3709415\cadd\3709415LOC01.DWG

Notice of Availability and Appeal Rights

Questar Addendum: Additional well from existing pad
MHA #1-19H-150-90

The Bureau of Indian Affairs (BIA) is planning to issue administrative approvals related to the Addendum to Questar Exploration and Production Company, November 2008, Environmental Assessment, One Bakken Formation Exploratory Wells at One Location: MHA #1-19H-150-90 as shown on the attached map. Construction by Questar is expected to begin in 2010.

An environmental assessment (EA) determined that proposed activities will not cause significant impacts to the human environment. An environmental impact statement is not required. Contact Howard Bemer, Superintendent at 701-627-4707 for more information and/or copies of the EA and the Finding of No Significant Impact (FONSI).

The FONSI is only a finding on environmental impacts – it is not a decision to proceed with an action and *cannot* be appealed. BIA's decision to proceed with administrative actions *can* be appealed until February 20, 2010, by contacting:

United States Department of the Interior
Office of Hearings and Appeals
Interior Board of Indian Appeals
801 N. Quincy Street, Suite 300, Arlington, Va 22203.

Procedural details are available from the BIA Fort Berthold Agency at 701-627-4707.

Project locations.

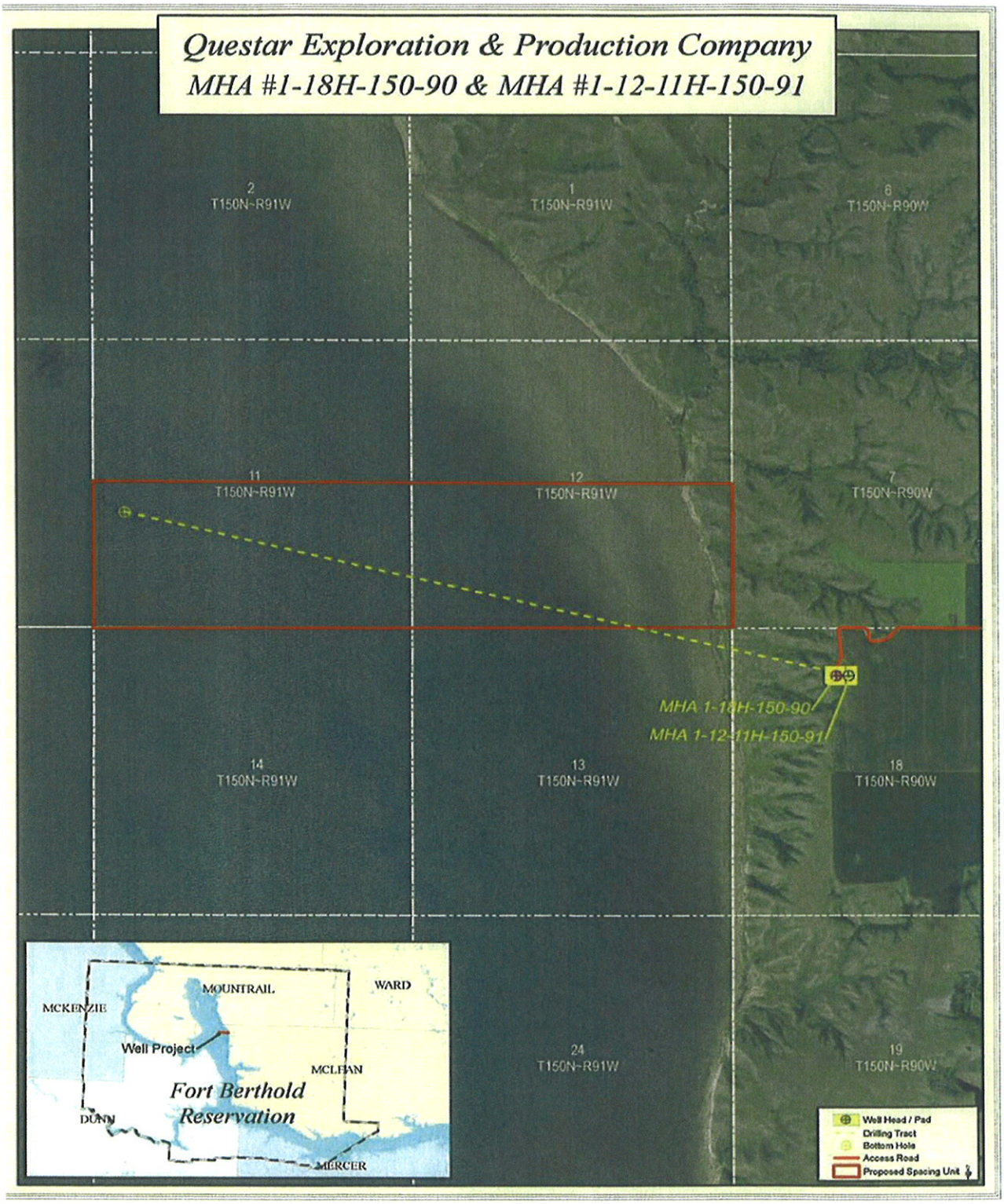


Figure 1, Project Overview Map

Notice of Availability and Appeal Rights

Questar Addendum: Additional well from existing pad
MHA #1-18H-150-90

The Bureau of Indian Affairs (BIA) is planning to issue administrative approvals related to the Addendum to Questar Exploration and Production Company, September 2008, Environmental Assessment, One Bakken Formation Exploratory Well at One Location: MHA #1-18H-150-90 as shown on the attached map. Construction by Questar is expected to begin in 2010.

An environmental assessment (EA) determined that proposed activities will not cause significant impacts to the human environment. An environmental impact statement is not required. Contact Howard Bemer, Superintendent at 701-627-4707 for more information and/or copies of the EA and the Finding of No Significant Impact (FONSI).

The FONSI is only a finding on environmental impacts – it is not a decision to proceed with an action and *cannot* be appealed. BIA's decision to proceed with administrative actions *can* be appealed until February 20, 2010, by contacting:

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Interior Board of Indian Appeals
801 N. Quincy Street, Suite 300, Arlington, Va 22203.

Procedural details are available from the BIA Fort Berthold Agency at 701-627-4707.

Project locations.

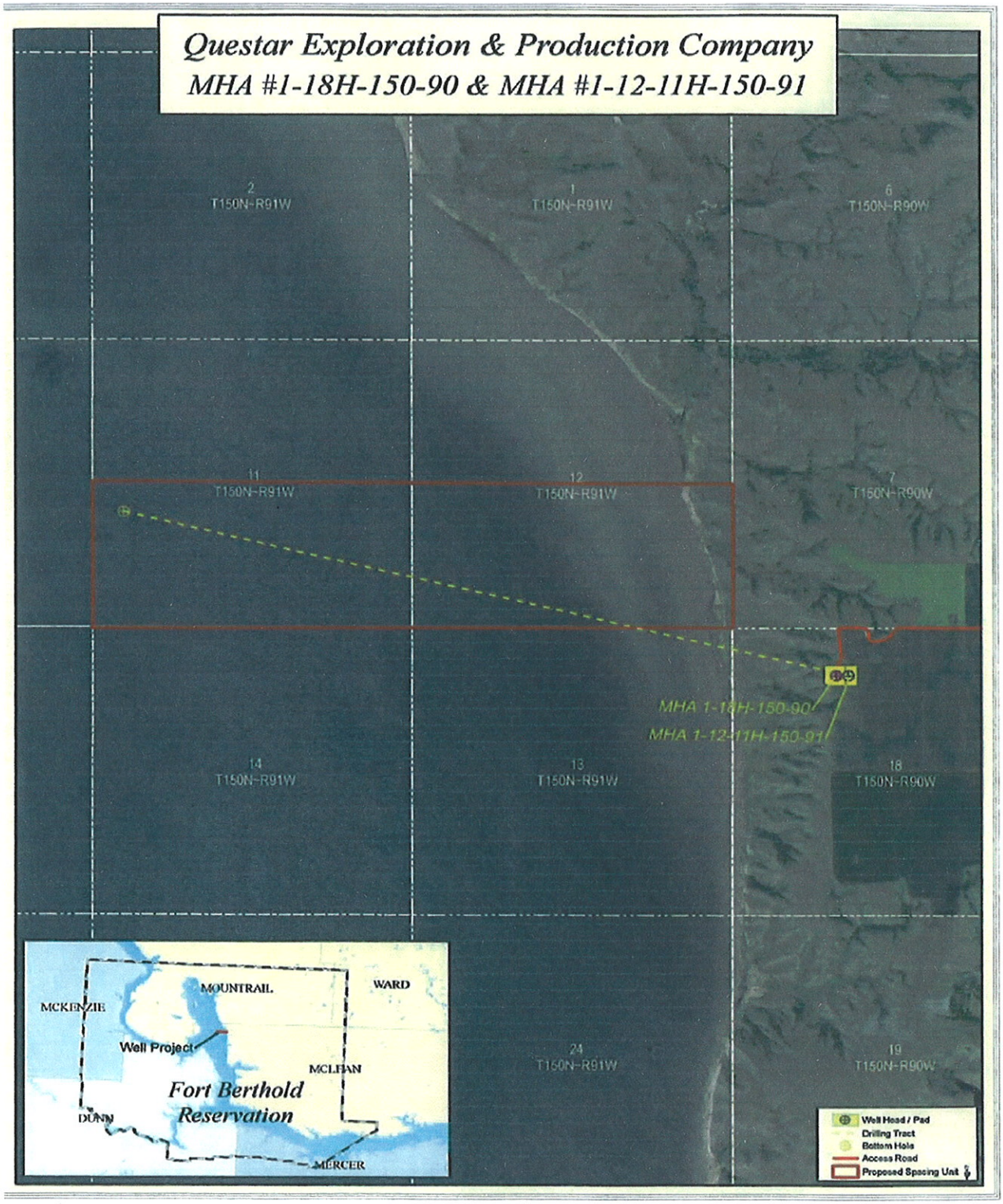

Figure 1, Project Overview Map