

OCT 22 2015

Form 3160-3  
(March 2012)

RECEIVED

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 20145. Lease Serial No.  
NMLC-029415B

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.  
Nosler 12 Fed EG 6H

9. API Well No.

10. Field and Pool, or Exploratory  
Fren Glorieta Yeso11. Sec., T. R. M. or Blk. and Survey or Area  
Section 11 & 12, T. 17S, R. 31E12. County or Parish  
Eddy13. State  
NM1a. Type of work: ☒ DRILL☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator Burnett Oil Co., Inc.

3a. Address 801 Cherry Street, Suite 1500  
Fort Worth, Texas 761023b. Phone No. (include area code)  
817-583-8730

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface 1800' FNL &amp; 300' FEL, Unit H, Sec. 11

At proposed prod. zone 2290' FNL &amp; 1670' FEL, Unit G, Sec. 12

14. Distance in miles and direction from nearest town or post office\*  
Approximately 3.3 miles West of Maljamar, NM15. Distance from proposed\* location to nearest property or lease line, ft.  
(Also to nearest drig. unit line, if any) 300'16. No. of acres in lease  
192017. Spacing Unit dedicated to this well  
120

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft. 1166'

19. Proposed Depth  
5346.00' TVD  
9207.27' MD20. BLM/BIA Bond No. on file  
NM-B000197 & NM-B00069921. Elevations (Show whether DF, KDB, RT, GL, etc.)  
3967' GL22. Approximate date work will start\*  
11/30/201523. Estimated duration  
30 days

## 24. Attachments

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

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature

Name (Printed/Typed)

Date

Leslie M. Garvis

06/22/2015

Title

Regulatory Coordinator

Approved by (Signature)

Name (Printed/Typed)

Date

/S/STEPHEN J. CAFFEY

OCT 20 2015

Title

FOR

FIELD MANAGER

Office

BLM-CARLSBAD FIELD 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.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

\*(Instructions on page 2)

SEE ATTACHED FOR  
CONDITIONS OF APPROVALAccepted for record  
NMOCAPPROVAL SUBJECT TO  
GENERAL REQUIREMENTS AND  
SPECIAL STIPULATIONS  
ATTACHED

Roswell Controlled Water Basin

Witness Surface Casing

DISTRICT I  
1625 N. French Dr., Hobbs, NM 88240  
Phone (575) 393-6161 Fax: (575) 393-0720

DISTRICT II  
811 S. First St., Artesia, NM 88210  
Phone (505) 748-1283 Fax: (505) 748-9720

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone (505) 476-3400 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-102  
Revised August 11, 2011

Submit one copy to appropriate  
District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number <b>30-015-43421</b>		Pool Code <b>26770</b>	Pool Name <b>FREN GLORIETA YESO</b>
Property Code <b>38562 315616</b>	Property Name <b>NOSLER 12 FED EG</b>		Well Number <b>6H</b>
OGRID No. <b>03080</b>	Operator Name <b>BURNETT OIL COMPANY, INC.</b>		Elevation <b>3967</b>

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	SOUTH/NORTH LINE	FEET from the	East/EAST LINE	County
H	11	17 S	31 E		1800	NORTH	300	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	SOUTH/NORTH LINE	FEET from the	East/EAST LINE	County
G	12	17 S	31 E		2290	NORTH	1670	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
120			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

**SURFACE LOCATION**  
Lot - N 32.851363  
Long - W 103.832185  
NMSPCE - N 673802.2  
E 653901.5  
(NAD-27)

**BOTTOM HOLE LOCATION**  
Lot - N 32.850039  
Long - W 103.819445  
NMSPCE - N 673339.4  
E 657816.2  
(NAD-27)

N: 675566.2  
E: 648912.5  
NAD 27

N: 675586.4  
E: 651551.7  
NAD 27

N: 675603.7  
E: 654191.5  
NAD 27

N: 675622.9  
E: 656833.1  
NAD 27

N: 675640.4  
E: 659473.1  
NAD 27

N: 670286.9  
E: 648989.3  
NAD 27

N: 670323.4  
E: 654220.6  
NAD 27

N: 670360.3  
E: 658503.4  
NAD 27

**OPERATOR CERTIFICATION**  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Leslie Garvis* 6/22/15  
Signature Date  
**Leslie Garvis**  
Printed Name  
**lgarvis@burnettoil.com**  
Email Address

**SURVEYOR CERTIFICATION**  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

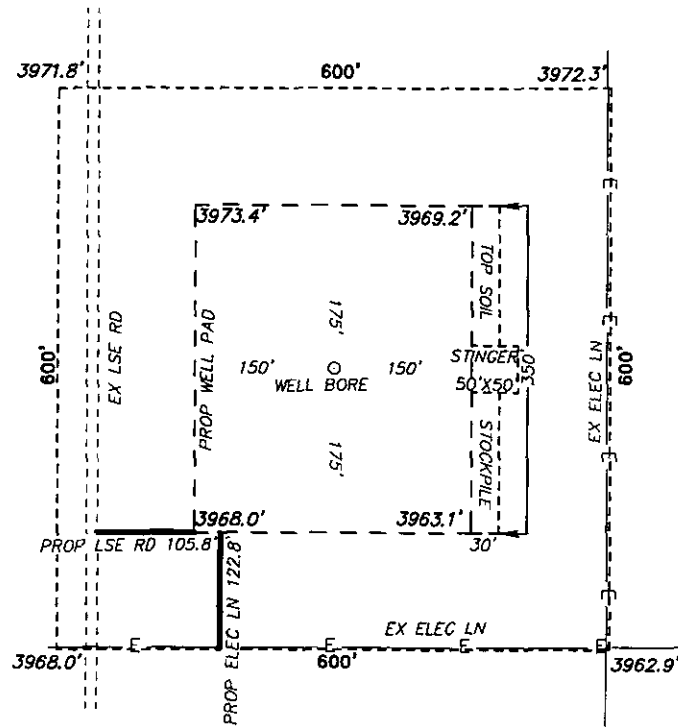
APR 30 2015  
NEW MEXICO  
Professional Surveyor  
7977

Certificate No. 7977  
BRAIN CORP.

0' 1000' 2000' 3000' 4000'  
SCALE: 1" = 2000'  
WO Num.: 31668

# EXHIBIT A

SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



**BURNETT OIL COMPANY, INC.**  
**NOSLER 12 FED EG 6H**

ELEV. - 3967'

Lat - N 32.851363

Long - W 103.832185

NMSPCE- N 673802.2

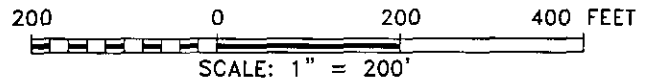
E 653901.5

(NAD-27)

Directions to Location:

FROM THE JUNCTION OF LOVINGTON HIGHWAY AND  
RIPPLE RD GO NORTHEAST ON LOVINGTON HIGHWAY  
0.85 MILES, TURN NORTH ON LEASE ROAD 818 FEET  
TO BATTERY AND FOLLOW LEASE ROAD SOUTHWEST  
0.35 MILES, NORTHWEST 0.19 MILES, NORTH 0.39  
MILES, NORTHWEST 0.49 MILES, NORTH 0.24 MILES  
TO PROPOSED LEASE ROAD ON RIGHT.

MALJAMAR, NM IS  $\pm 4$  MILES TO THE EAST OF LOCATION.



**Burnett Oil Co., Inc. 6666**

REF: NOSLER 12 FED EG 6H/ WELL PAD TOPO

THE NOSLER 12 FED EG 6H LOCATED 1800' FROM  
THE NORTH LINE AND 300' FROM THE EAST LINE OF  
SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

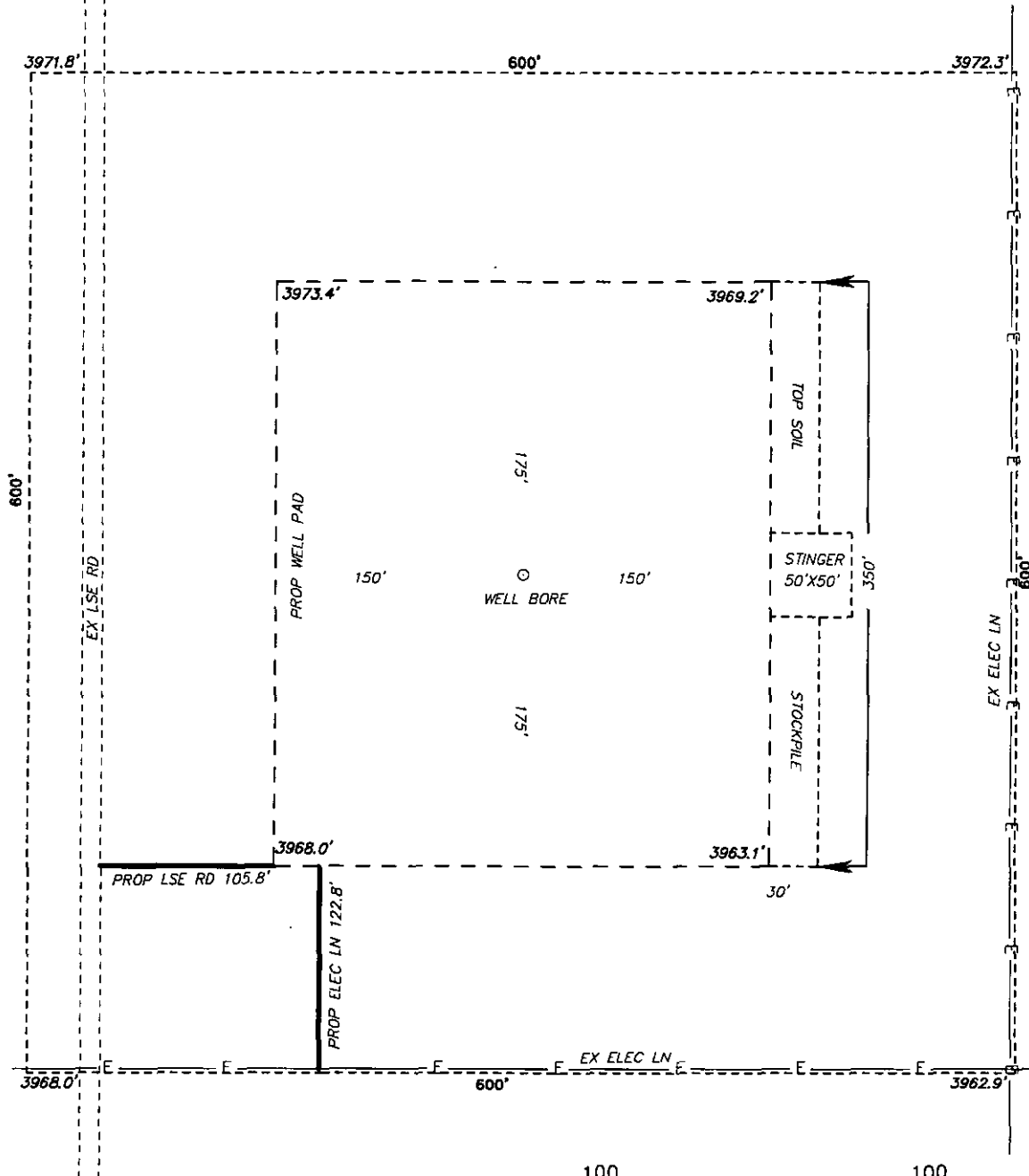
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**surveys**  
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in the oilfield

P.O. Box 1786 (575) 393-7316 - Office  
1120 N. West County Rd. (575) 392-2206 - Fax  
Hobbs, New Mexico 88241 basin-surveys.com

W.O. Number: 31668 Drawn By: K. NORRIS Date: 05-12-2015 Survey Date: 04-30-2015 Sheet 1 of 1 Sheets

# EXHIBIT B

SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



100 100 200 FEET  
SCALE: 1" = 100'

**Burnett Oil Co., Inc.** 6666

REF: NOSLER 12 FED EG 6H/ WELL PAD TOPO

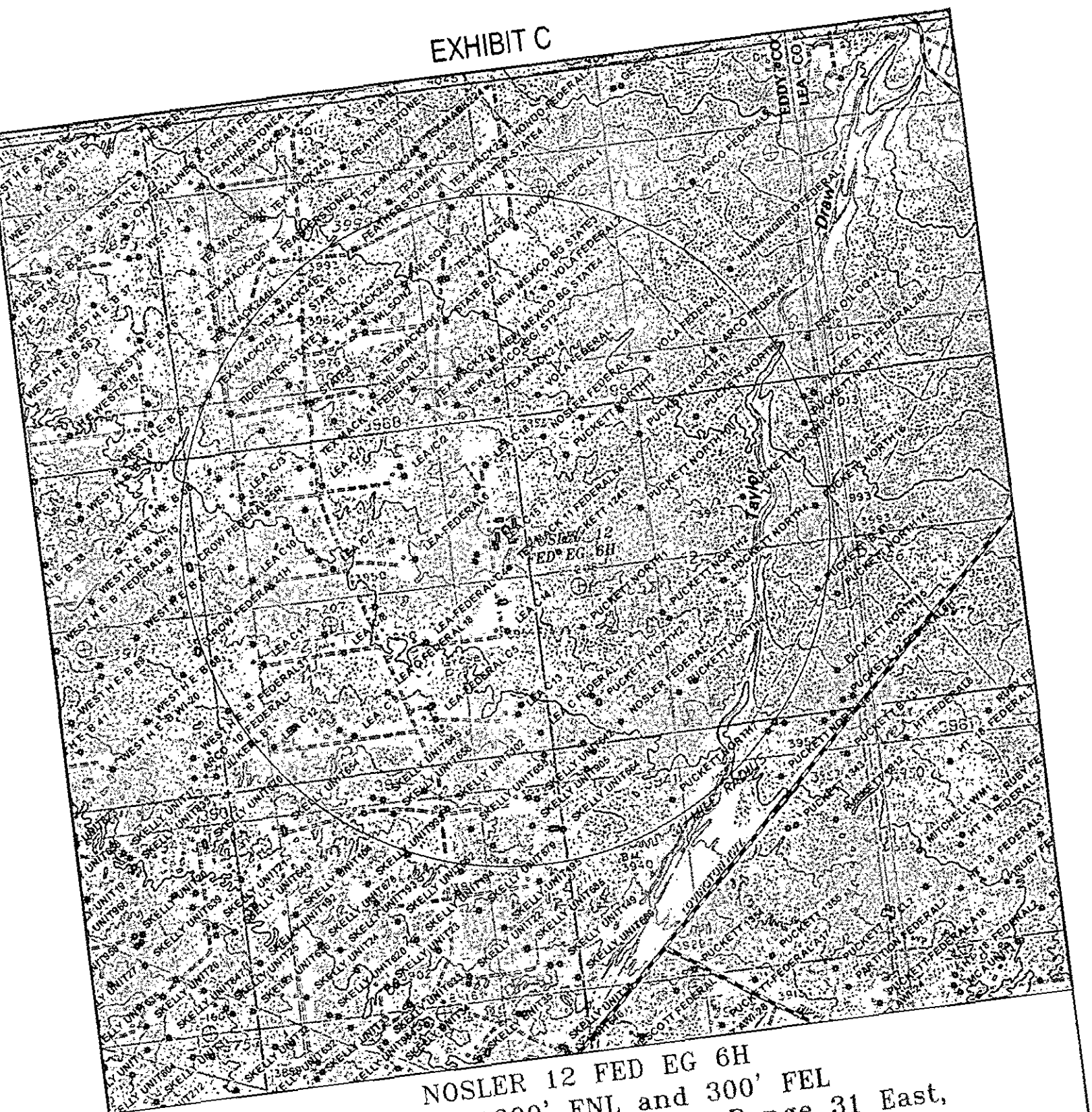
THE NOSLER 12 FED EG 6H LOCATED 1800' FROM  
THE NORTH LINE AND 300' FROM THE EAST LINE OF  
SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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1120 N. West County Rd. (575) 392-2206 - Fax  
Hobbs, New Mexico 88241 basin-surveys.com

W.O. Number: 31668 Drawn By: K. NORRIS Date: 05-12-2015 Survey Date: 04-30-2015 Sheet 1 of 1 Sheets

# EXHIBIT C



NOSLER 12 FED EG 6H  
 Located 1800' FNL and 300' FEL  
 Section 11, Township 17 South, Range 31 East,  
 N.M.P.M., Eddy County, New Mexico.

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**surveys**

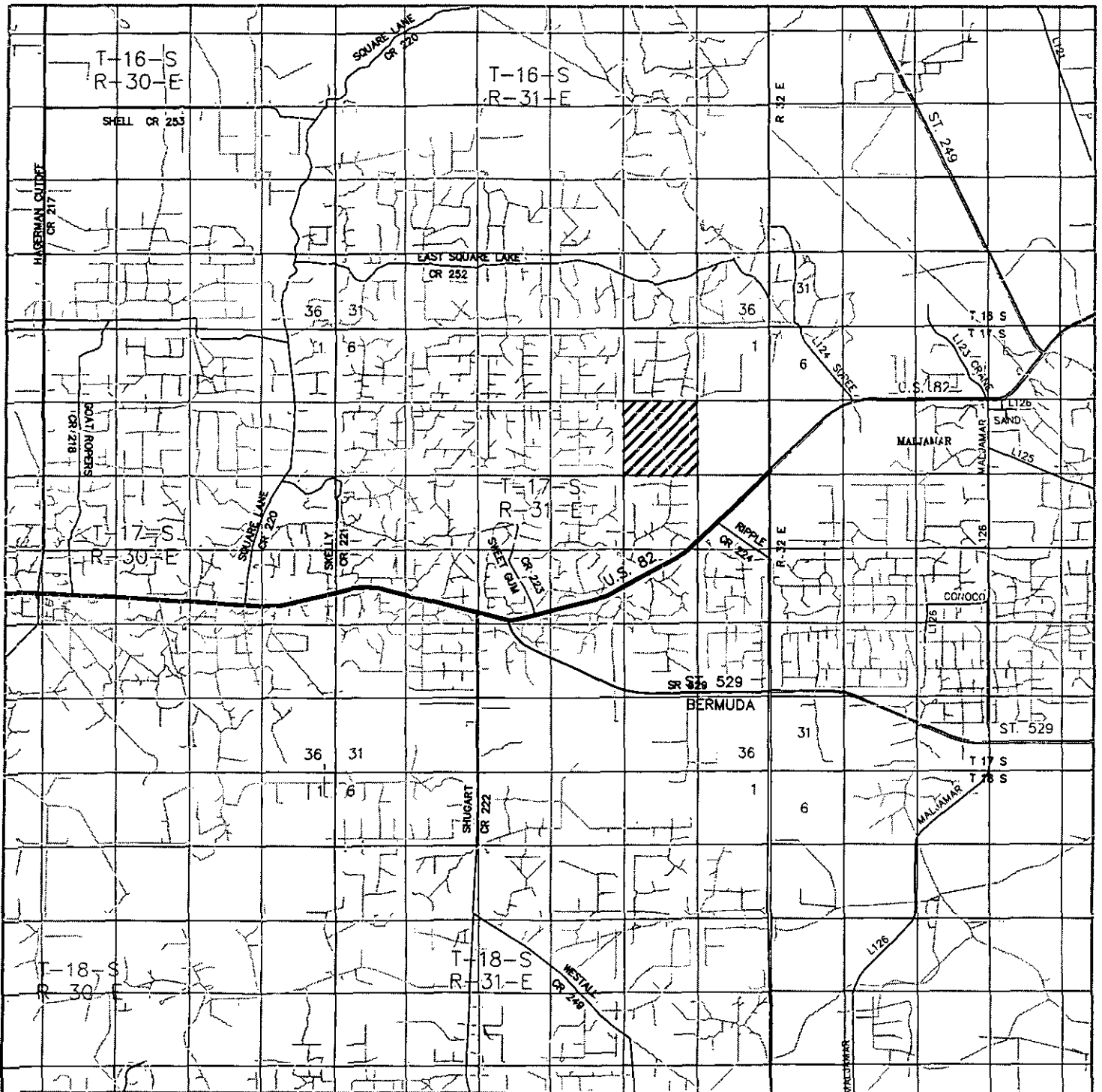
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 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basinsurveys.com

0' 1000' 2000' 3000' 4000'  
 SCALE: 1" = 2000'  
 W.O. Number: KAN 31668  
 Survey Date: 04-30-2015  
 YELLOW TINT - USA LAND  
 BLUE TINT - STATE LAND  
 NATURAL COLOR - USA LAND

**Burnett Oil Co., Inc.**  
**6666**

# EXHIBIT D



NOSLER 12 FED EG 6H

Located 1800' FNL and 300' FEL

Section 11, Township 17 South, Range 31 East,  
N.M.P.M., Eddy County, New Mexico.

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(575) 393-7316 - Office  
(575) 392-2206 - Fax  
basinsurveys.com

0 1 MI 2 MI 3 MI 4 MI

SCALE: 1" = 2 MILES

W.O. Number: KAN 31668

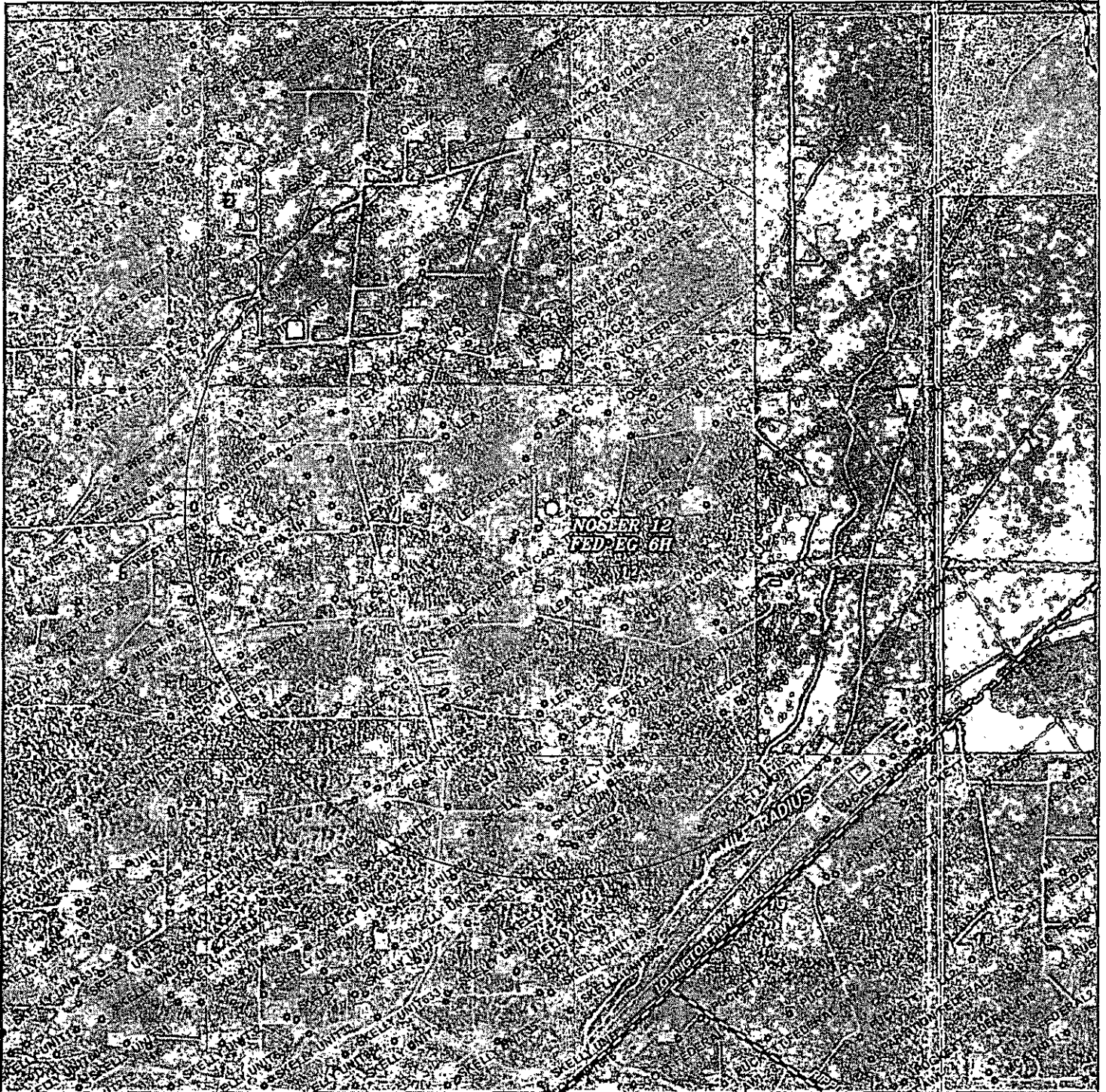
Survey Date: 04-30-2015

YELLOW TINT - USA LAND  
BLUE TINT - STATE LAND  
NATURAL COLOR - USA LAND

**Burnett Oil Co., Inc.**  
**6666**



# EXHIBIT E



**NOSLER 12 FED EG 6H**  
 Located 1800' FNL and 300' FEL  
 Section 11, Township 17 South, Range 31 East,  
 N.M.P.M., Eddy County, New Mexico.

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 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basinsurveys.com

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: KAN 31668

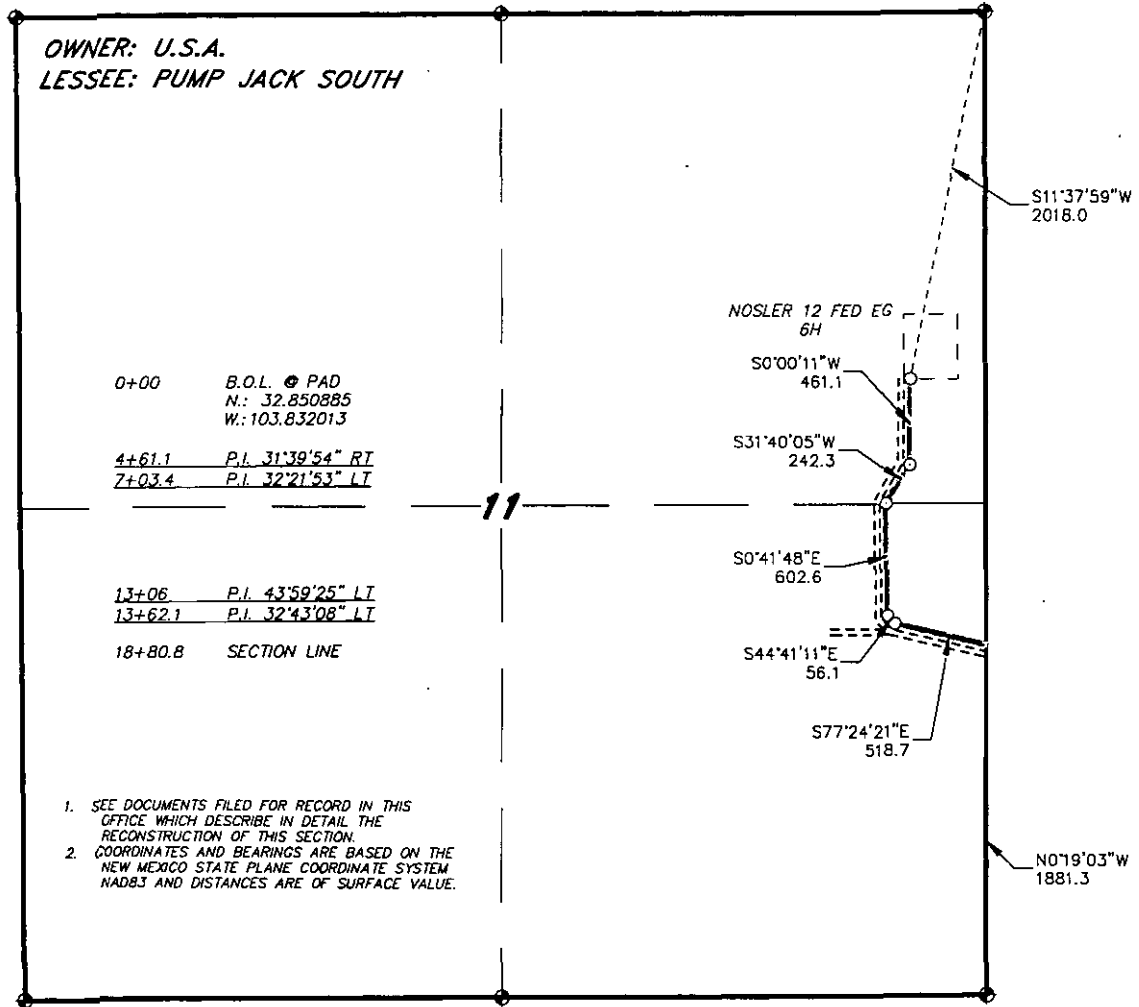
Survey Date: 04-30-2015

YELLOW TINT - USA LAND  
 BLUE TINT - STATE LAND  
 NATURAL COLOR - USA LAND

**Burnett Oil Co., Inc.**  
**6666**

# EXHIBIT F

SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



## LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 11 = 1880.8 FEET = 113.99 RODS = 0.36 MILES = 1.29 ACRES

I HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS THE REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.

GARY L. JONES

No. 7977

No. 5074

1000 0 1000 2000 FEET

**Burnett Oil Co., Inc. 6666**

REF: PROPOSED FLOW LINE TO NOSLER BATTERY

A PIPELINE CROSSING USA LAND IN  
SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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(575) 392-2206 - Fax  
basinsurveys.com

W.O. Number: 31668

Drawn By: K. NORRIS

Date: 05-12-2015

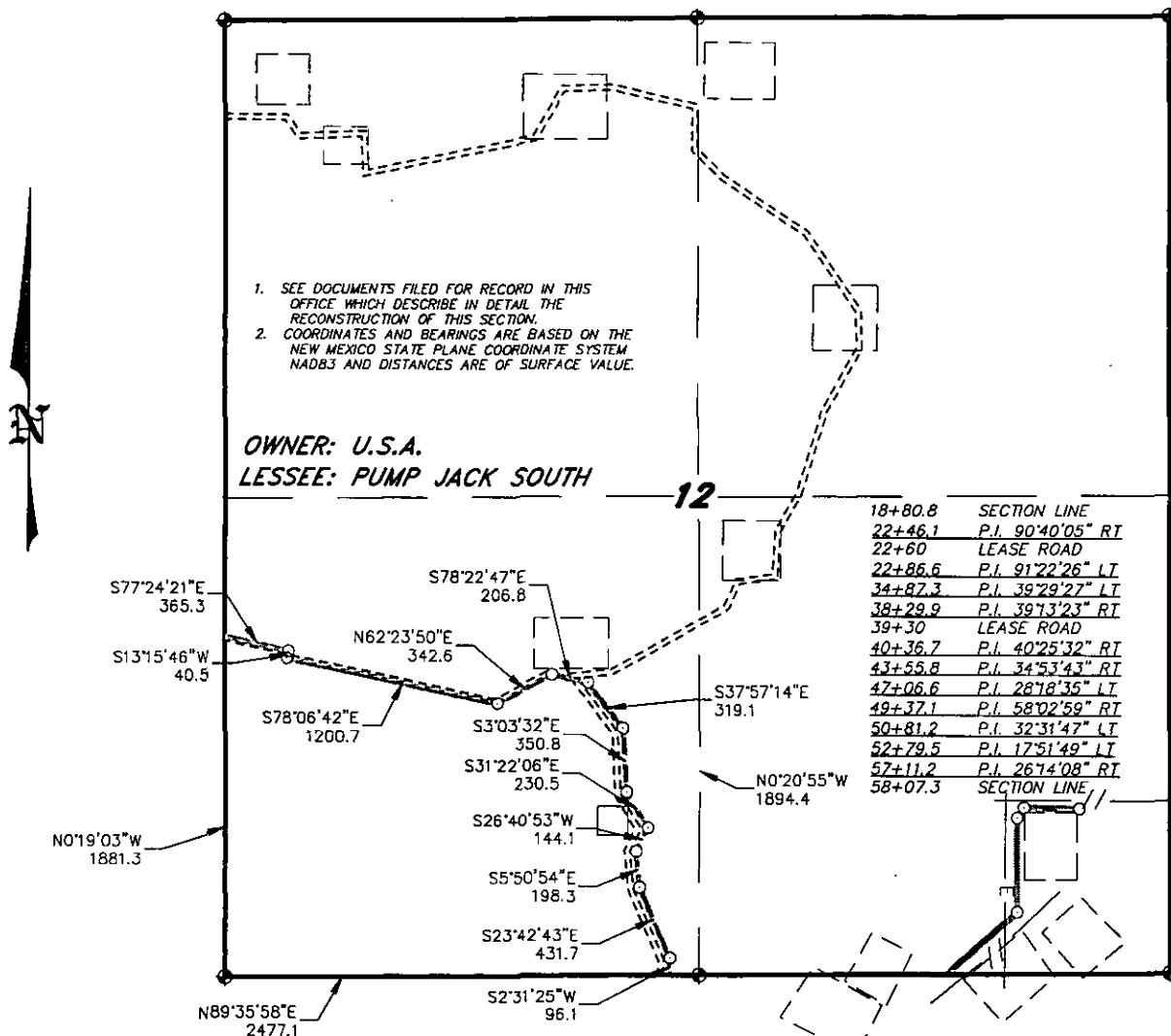
Survey Date: 04-30-2015

Sheet 1 of 4 Sheets



# EXHIBIT G

SECTION 12, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.

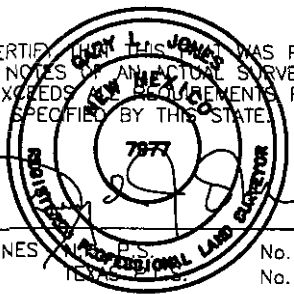


## LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 12, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 12 = 3926.5 FEET = 237.97 RODS = 0.74 MILES = 2.70 ACRES

I HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



1000 0 1000 2000 FEET

**Burnett Oil Co., Inc.** 6666

REF: PROPOSED FLOW LINE TO NOSLER BATTERY

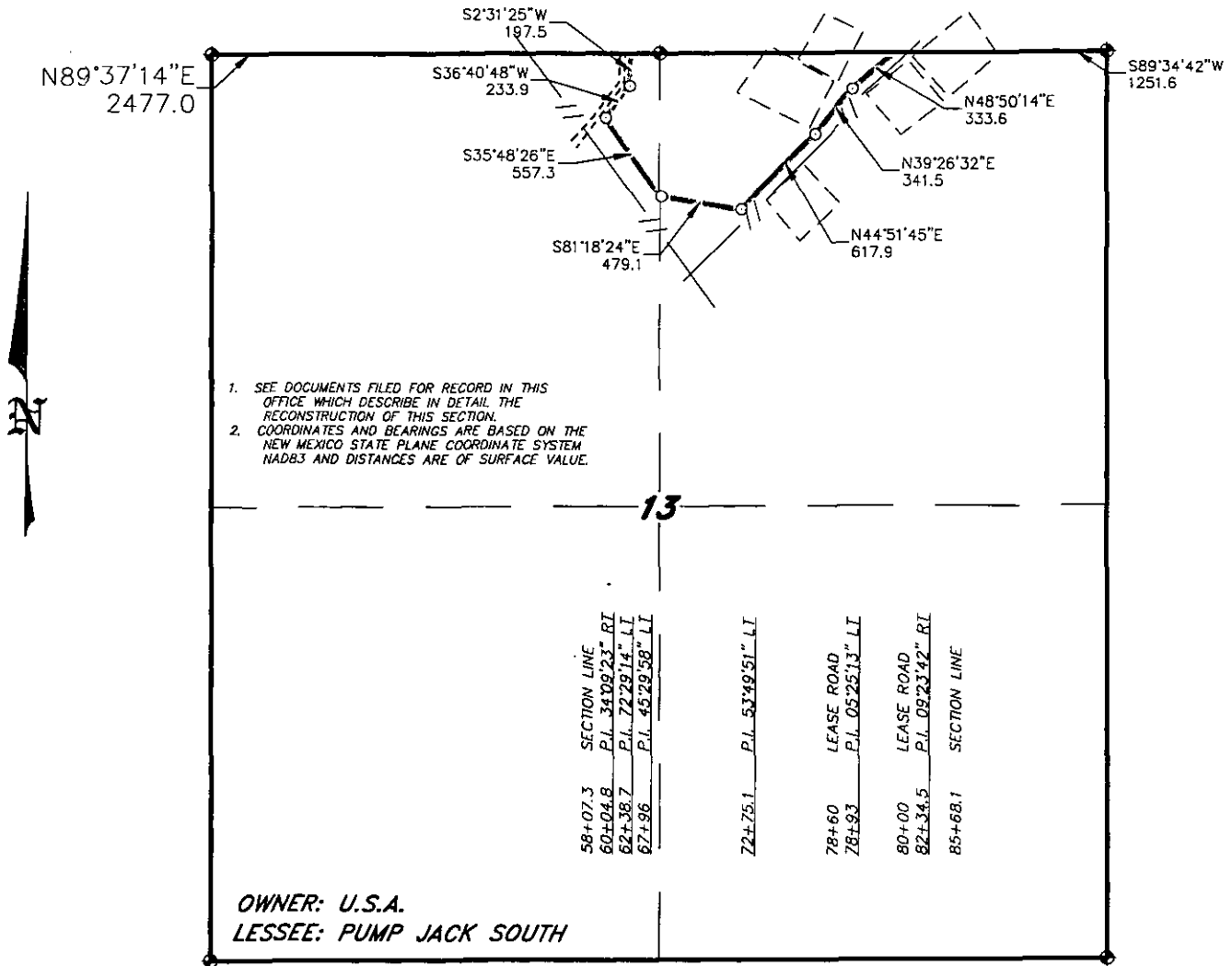
A PIPELINE CROSSING USA LAND IN  
SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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1120 N. West County Rd. (575) 392-2206 - Fax  
Hobbs, New Mexico 88241 basin-surveys.com

# EXHIBIT H

## SECTION 13, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

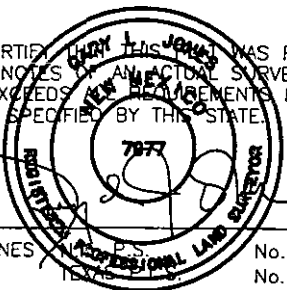


### LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 13, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 13 = 2760.8 FEET = 167.32 RODS = 0.52 MILES = 1.90 ACRES

I HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



1000 0 1000 2000 FEET

**Burnett Oil Co., Inc. 6666**

REF: PROPOSED FLOW LINE TO NOSLER BATTERY

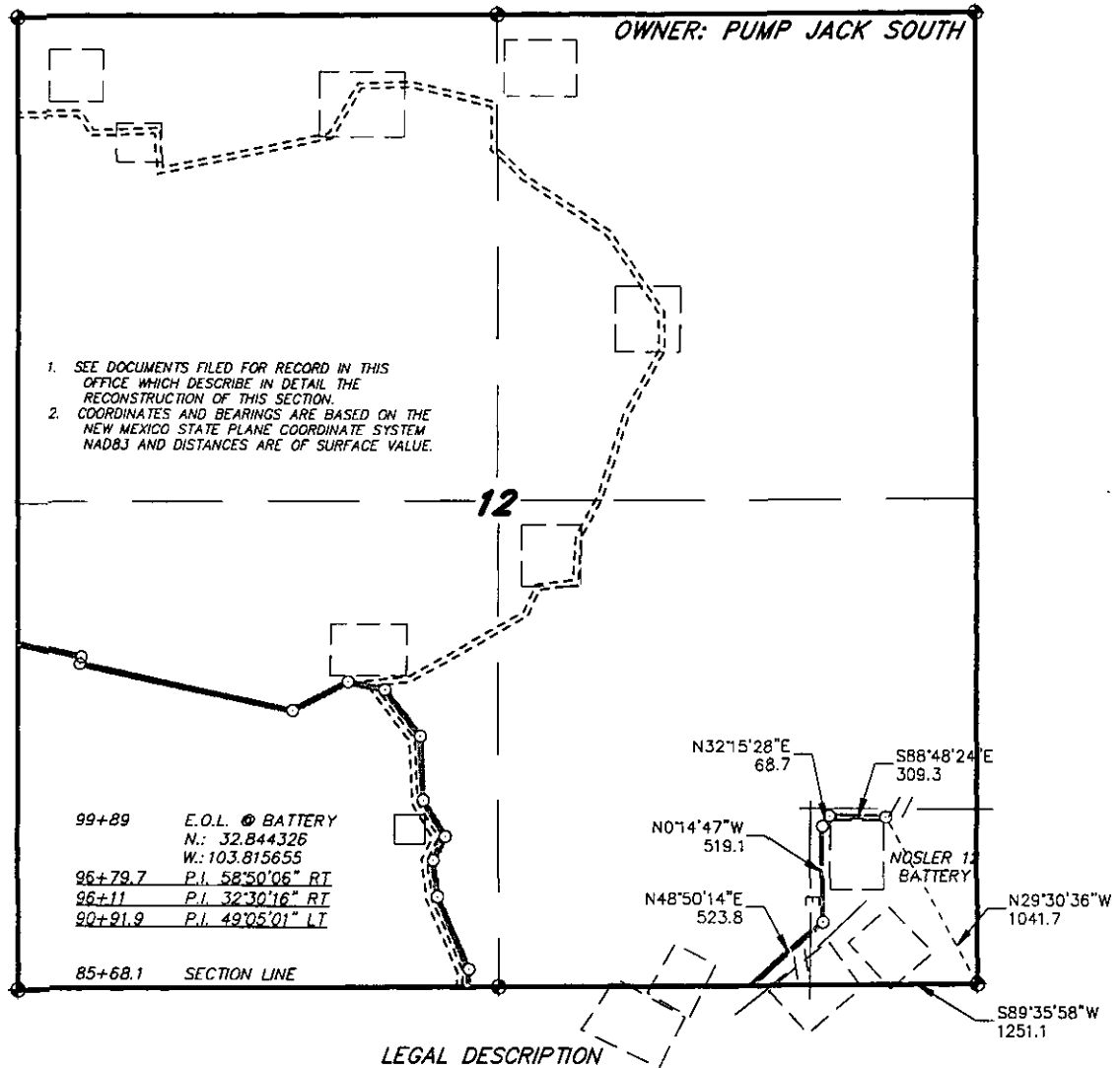
A PIPELINE CROSSING USA LAND IN  
SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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Hobbs, New Mexico 88241  
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(575) 392-2206 - Fax  
basinsurveys.com

# EXHIBIT I

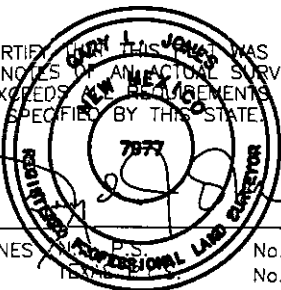
SECTION 12, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.



A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 12, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE FOLLOWING DESCRIBED CENTERLINE SURVEY.

BEGINNING AT A POINT WHICH LIES S.89°35'58"W, 1251.1 FEET FROM THE SOUTHEAST CORNER OF SAID SECTION 12; THENCE N.48°50'14"E, 523.8 FEET; THENCE N.00°14'47"W, 519.1 FEET; THENCE N.32°15'28"E, 68.7 FEET; THENCE S.88°48'24"E, 309.3 FEET TO THE END OF THIS LINE WHICH LIES N.29°30'36"W, 1041.7 FEET FROM THE SOUTHEAST CORNER OF SAID SECTION 12. SAID STRIP OF LAND BEING 1420.9 FEET OR 86.11 RODS IN LENGTH AND CONTAINING 0.98 ACRES, MORE OR LESS.

I HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



1000 0 1000 2000 FEET

**Burnett Oil Co., Inc. 6666**

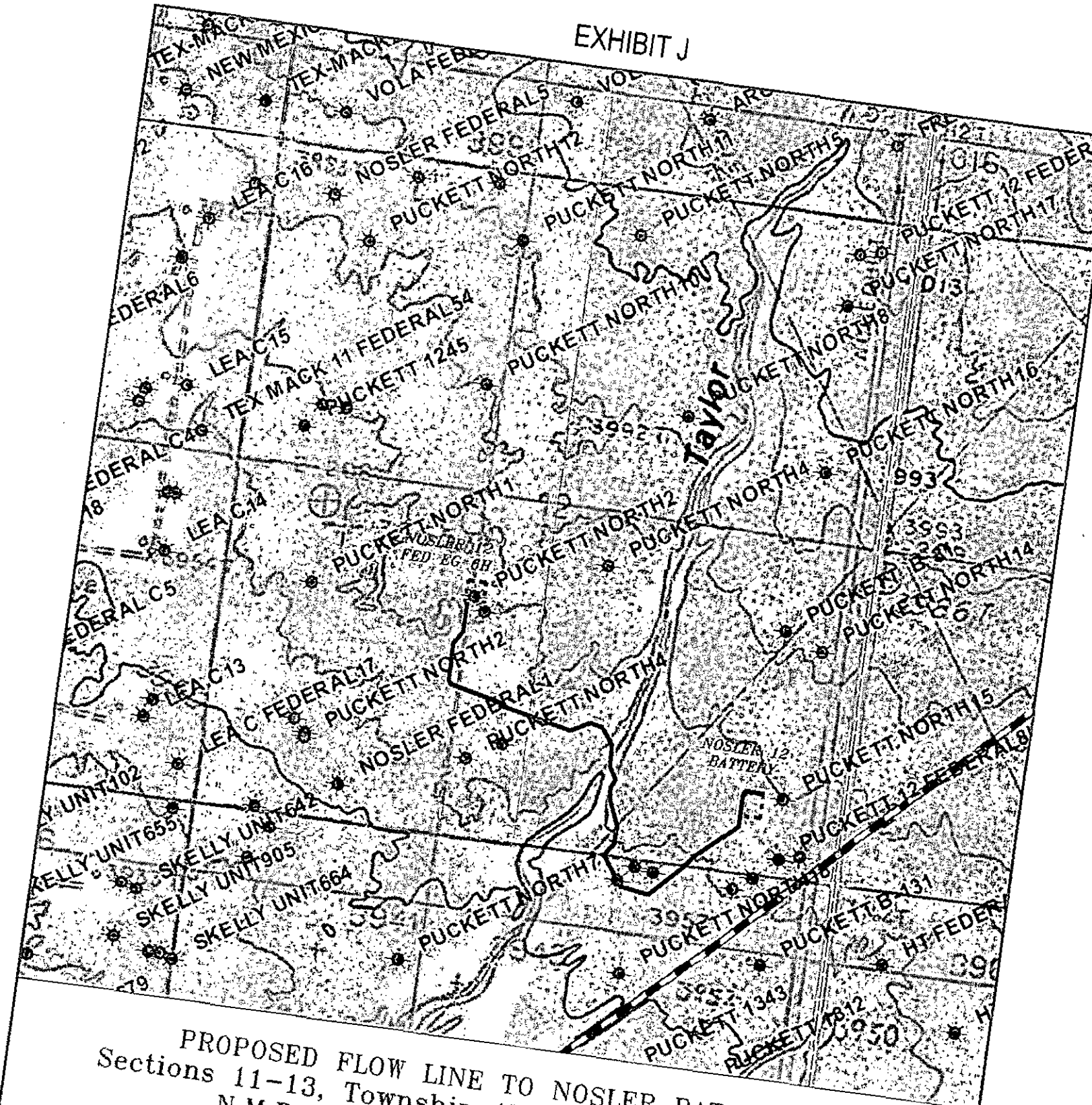
REF: PROPOSED FLOW LINE TO NOSLER BATTERY

A PIPELINE CROSSING FEE LAND IN  
SECTION 12, TOWNSHIP 17 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

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GARY L. JONES, P.S.  
No. 7977  
No. 5074  
P.O. Box 1786  
1120 N. West County Rd.  
Hobbs, New Mexico 88241  
(575) 393-7316 - Office  
(575) 392-2206 - Fax  
basinsurveys.com

EXHIBIT J



PROPOSED FLOW LINE TO NOSLER BATTERY  
 Sections 11-13, Township 17 South, Range 31 East,  
 N.M.P.M., Eddy County, New Mexico.

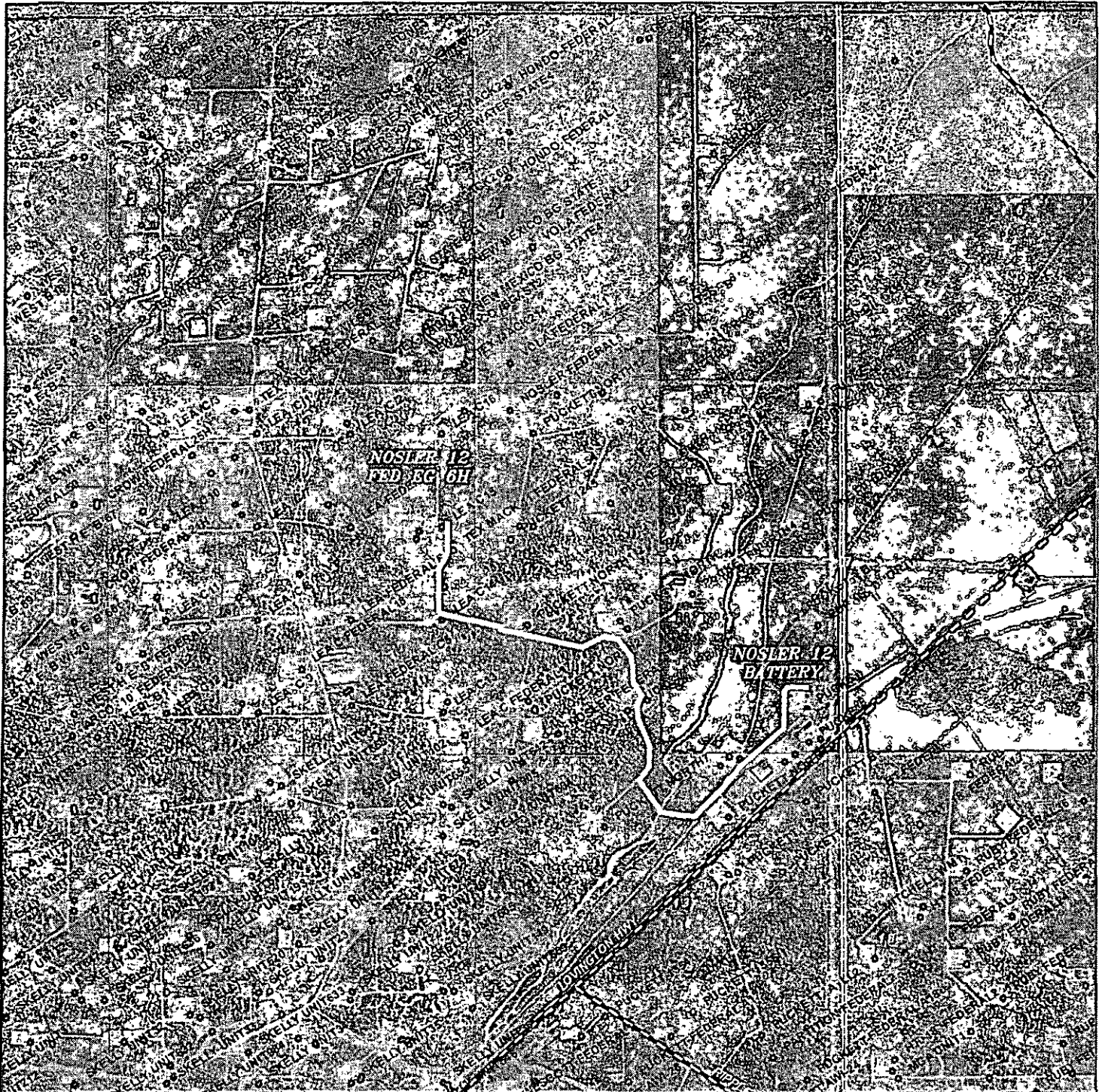
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 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basin-surveys.com

0'	1000'	2000'	3000'	4000'
SCALE: 1" = 2000'				
W.O. Number: KAN 31668				
Survey Date: 04-30-2015				
YELLOW TINT - USA LAND				
BLUE TINT - STATE LAND				
NATURAL COLOR - USA LAND				

**Burnett Oil Co., Inc.**  
**6666**

# EXHIBIT K



PROPOSED FLOW LINE TO NOSLER BATTERY  
 Sections 11-13, Township 17 South, Range 31 East,  
 N.M.P.M., Eddy County, New Mexico.

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P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basin-surveys.com

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: KAN 31668

Survey Date: 04-30-2015

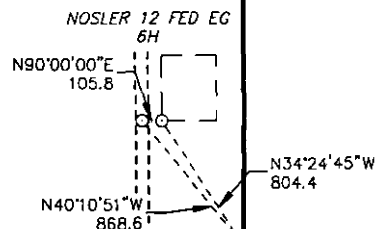
YELLOW TINT - USA LAND  
 BLUE TINT - STATE LAND  
 NATURAL COLOR - USA LAND

**Burnett Oil Co., Inc.**  
**6666**

# EXHIBIT L

SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.

OWNER: U.S.A.  
LESSEE: PUMP JACK SOUTH



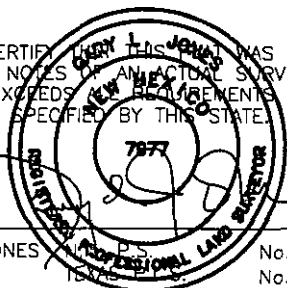
1. SEE DOCUMENTS FILED FOR RECORD IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THIS SECTION.
2. COORDINATES AND BEARINGS ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM NAD83 AND DISTANCES ARE OF SURFACE VALUE.

## LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 11 = 105.8 FEET = 6.41 RODS = 0.02 MILES = 0.07 ACRES

I HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



GARY L. JONES, P.S. No. 7977  
1644 E. 1st St. No. 5074

1000 0 1000 2000 FEET

**Burnett Oil Co., Inc.** 6666

REF: PROPOSED LEASE ROAD TO NOSLER 12 FED EG 6H

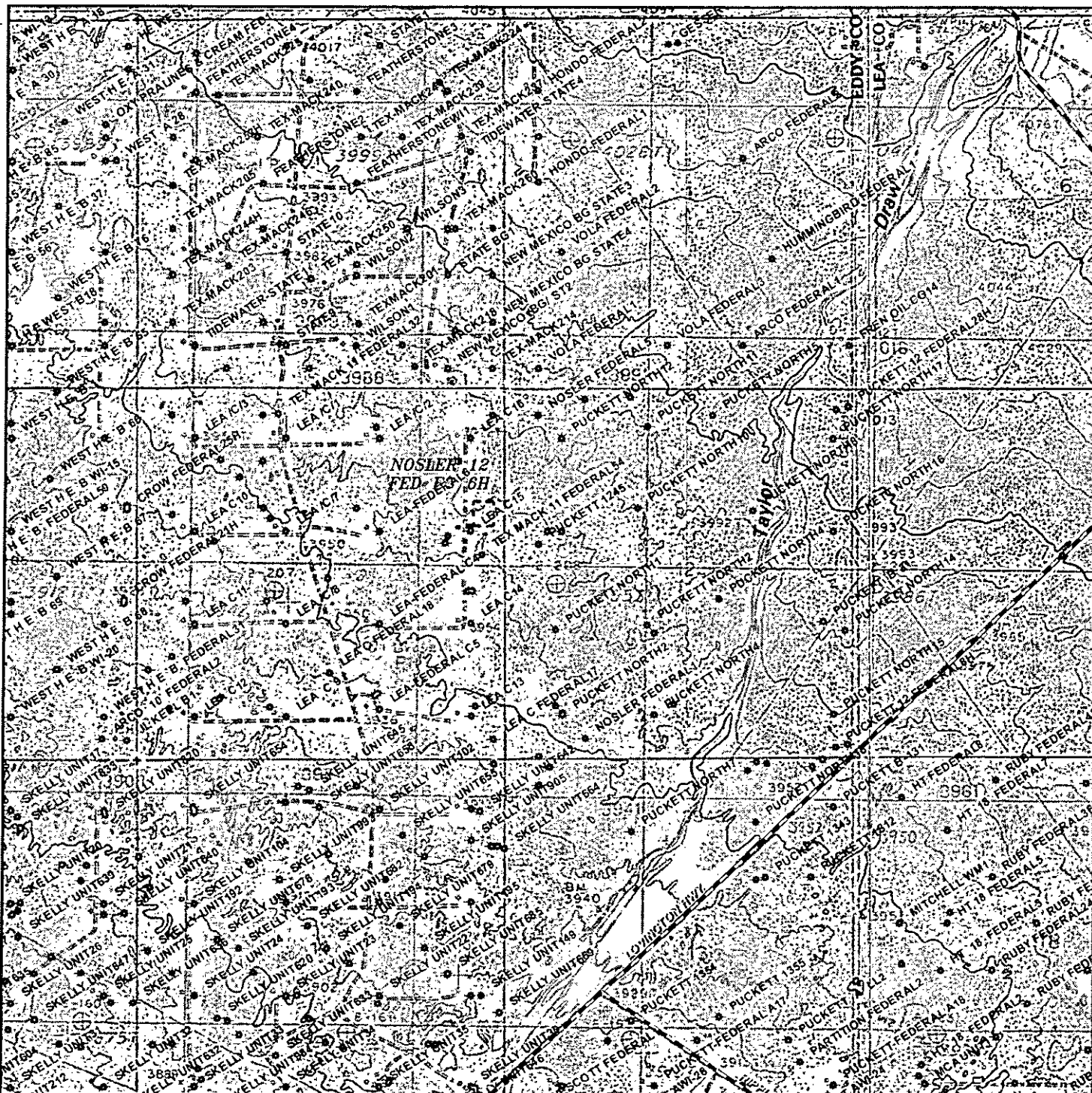
A LEASE ROAD CROSSING USA LAND IN  
SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

**basin surveys**  
focused on excellence  
in the oilfield

P.O. Box 1786 (575) 393-7316 - Office  
1120 N. West County Rd. (575) 392-2206 - Fax  
Hobbs, New Mexico 88241 basin-surveys.com



# EXHIBIT M



PROPOSED LEASE ROAD TO NOSLER 12 FED EG 6H  
SECTION 11, Township 17 South, Range 31 East,  
N.M.P.M., Eddy County, New Mexico.

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**surveys**  
focused on excellence  
in the oilfield

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1120 N. West County Rd.  
Hobbs, New Mexico 88241  
(575) 393-7316 - Office  
(575) 392-2206 - Fax  
basinsurveys.com

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: KAN 31668

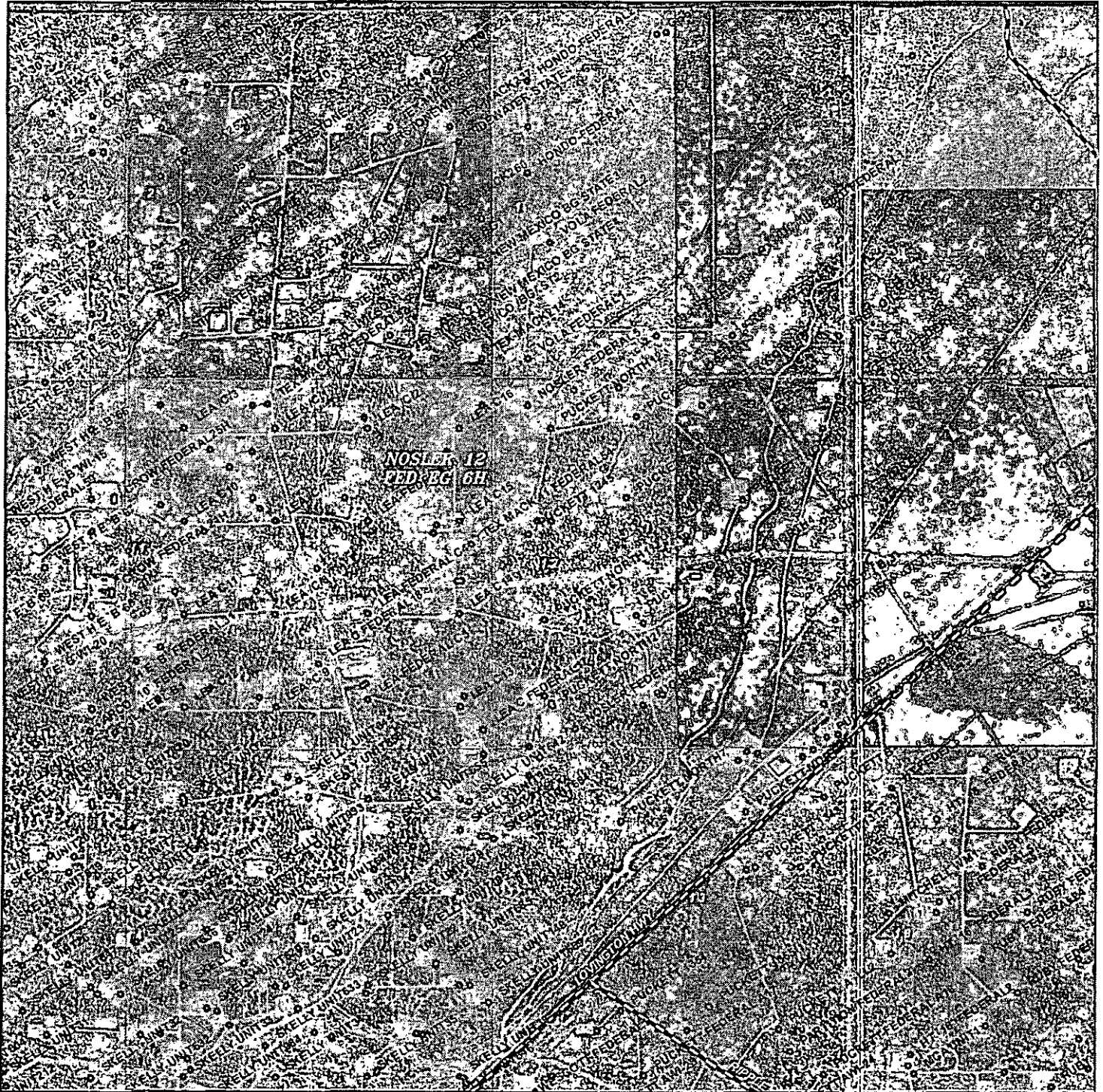
Survey Date: 04-30-2015

YELLOW TINT - USA LAND  
BLUE TINT - STATE LAND  
NATURAL COLOR - USA LAND

**Burnett Oil Co., Inc.**  
**6666**



# EXHIBIT N



PROPOSED LEASE ROAD TO NOSLER 12 FED EG 6H  
SECTION 11, Township 17 South, Range 31 East,  
N.M.P.M., Eddy County, New Mexico.

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focused on excellence  
in the oilfield

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1120 N. West County Rd.  
Hobbs, New Mexico 88241  
(575) 393-7316 - Office  
(575) 392-2206 - Fax  
basinsurveys.com

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: KAN 31668

Survey Date: 04-30-2015

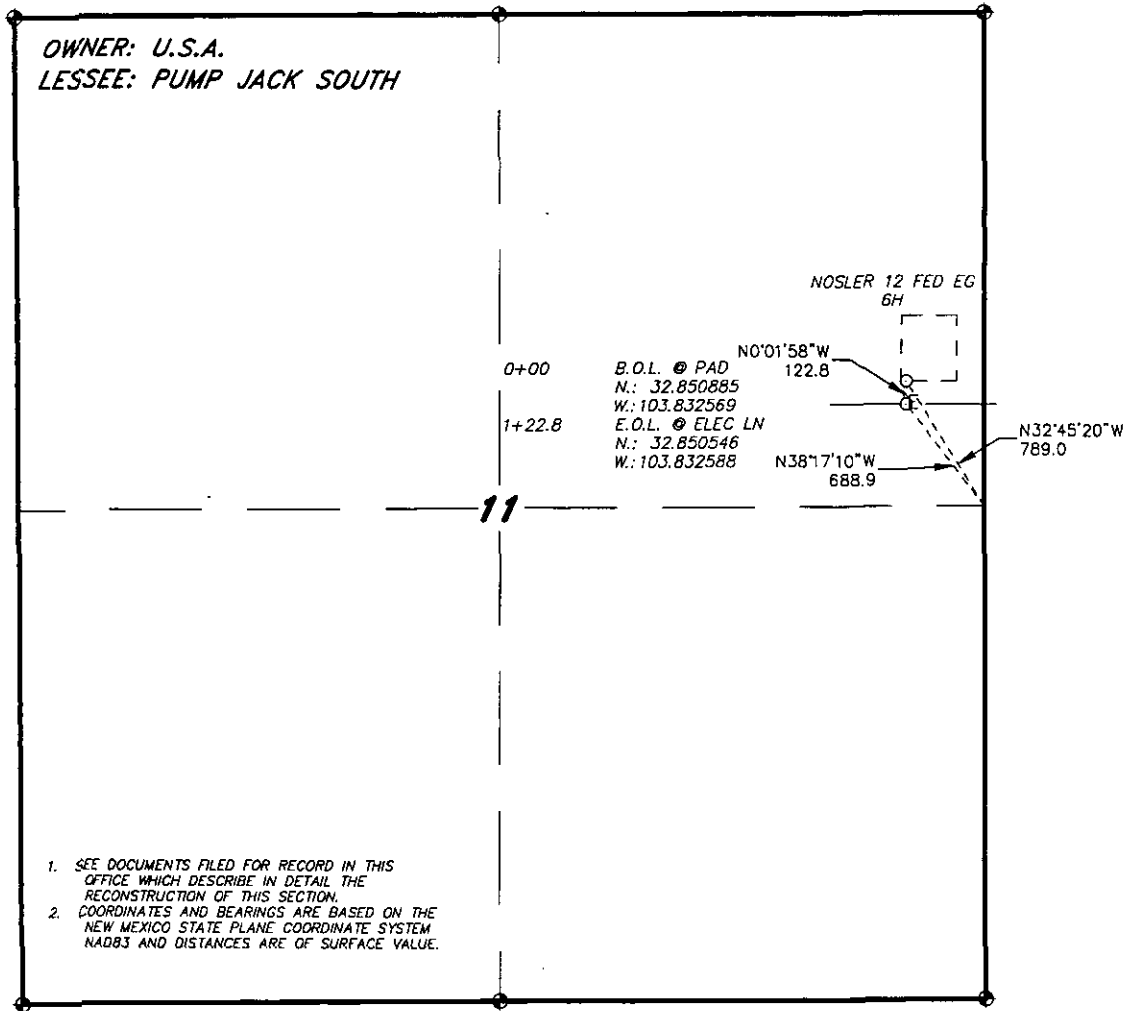
YELLOW TINT - USA LAND  
BLUE TINT - STATE LAND  
NATURAL COLOR - USA LAND

**Burnett Oil Co., Inc.**  
**6666**

# EXHIBIT O

SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M.,  
EDDY COUNTY, NEW MEXICO.

OWNER: U.S.A.  
LESSEE: PUMP JACK SOUTH



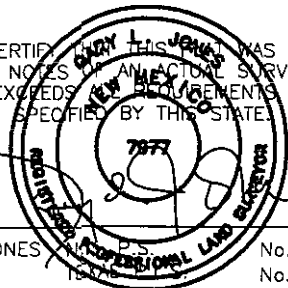
1. SEE DOCUMENTS FILED FOR RECORD IN THIS OFFICE WHICH DESCRIBE IN DETAIL THE RECONSTRUCTION OF THIS SECTION.
2. COORDINATES AND BEARINGS ARE BASED ON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM NAD83 AND DISTANCES ARE OF SURFACE VALUE.

## LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO AND BEING 15.0 FEET LEFT AND RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

SECTION 11 = 122.8 FEET = 7.44 RODS = 0.02 MILES = 0.08 ACRES

I HEREBY CERTIFY THAT THIS SURVEY WAS PREPARED FROM FIELD NOTES OF AN ACTUAL SURVEY AND MEETS OR EXCEEDS ALL REQUIREMENTS FOR LAND SURVEYS AS SPECIFIED BY THIS STATE.



GARY L. JONES, P.S. No. 7977  
No. 5074

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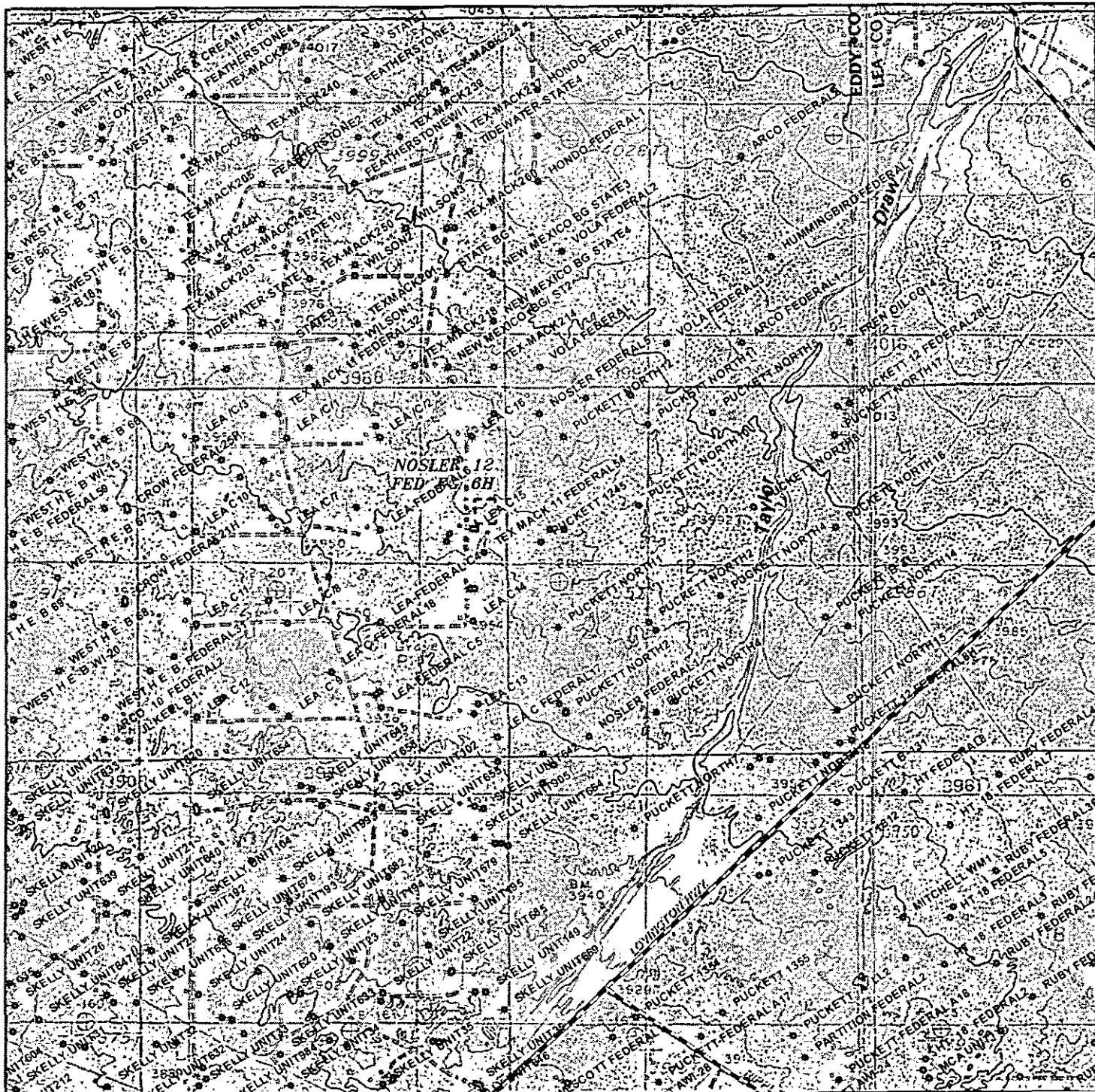
1000 0 1000 2000 FEET

**Burnett Oil Co., Inc. 6666**

REF: PROPOSED ELECTRIC LINE TO NOSLER 12 FED EG 6H

AN ELECTRIC LINE CROSSING USA LAND IN  
SECTION 11, TOWNSHIP 17 SOUTH, RANGE 31 EAST,  
N.M.P.M., EDDY COUNTY, NEW MEXICO.

# EXHIBIT P



PROPOSED ELECTRIC LINE TO NOSLER 12 FED EG 6H  
 Section 11, Township 17 South, Range 31 East,  
 N.M.P.M., Eddy County, New Mexico.

**basin**  
**surveys**  
 focused on excellence  
 in the oilfield

P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basinsurveys.com

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: KAN 31668

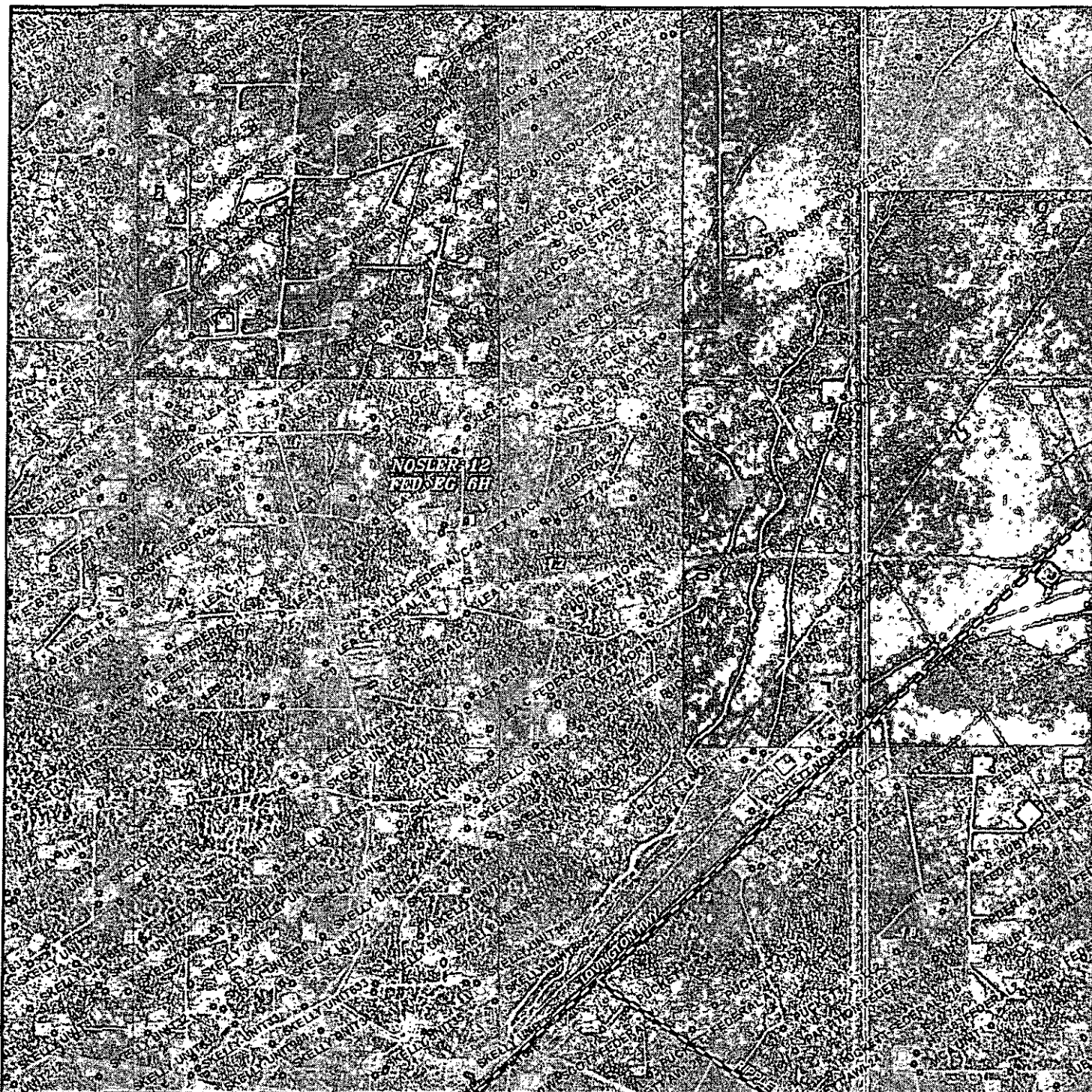
Survey Date: 04-30-2015

YELLOW TINT - USA LAND  
 BLUE TINT - STATE LAND  
 NATURAL COLOR - USA LAND

**Burnett Oil Co., Inc.**  
**6666**



# EXHIBIT Q



PROPOSED ELECTRIC LINE TO NOSLER 12 FED EG 6H  
 Section 11, Township 17 South, Range 31 East,  
 N.M.P.M., Eddy County, New Mexico.

**basin**  
**surveys**  
 focused on excellence  
 in the oilfield

P.O. Box 1786  
 1120 N. West County Rd.  
 Hobbs, New Mexico 88241  
 (575) 393-7316 - Office  
 (575) 392-2206 - Fax  
 basinsurveys.com

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: KAN 31668

Survey Date: 04-30-2015

YELLOW TINT - USA LAND  
 BLUE TINT - STATE LAND  
 NATURAL COLOR - USA LAND

**Burnett Oil Co., Inc.**  
**6666**



## DRILLING PLAN

**Nosler 12 Fed EG 6H**

## HORIZONTAL FREN GLORIETA YESO WELL

**1. Estimated Tops of Geological Markers and depths of anticipated fresh water, oil or gas:**

<u>Geological Name</u>	<u>Estimate Top</u>	<u>Anticipated Fresh Water, Oil or Gas</u>
Alluvium	Surface	There is no fresh water here
Anhydrite	678'	
Salt	860'	
Base Salt	1864'	
Yates	2038'	
Seven Rivers	2342'	Oil
Queen	2965'	Oil
Grayburg	3388'	Oil
San Andres	3724'	Oil
Glorieta	5218'	Oil
Yeso	5296'	Oil
Total Depth	Refer to APD	

No other formations are expected to yield fresh water, oil or gas in measurable volumes. There is no groundwater in the immediate vicinity where we will be drilling. We will set 13-3/8" casing at approximately +/- 770' in the Anhydrite above the salt and circulate cement to surface.

We will set 9-5/8" intermediate casing at around 2,000' and circulate cement to surface. All intervals will be isolated by setting 7" x 5-1/2" casing to total depth and circulating cement from +/-5,500' to above the base of the 9-5/8" intermediate casing shoe.

DN  
tool

**2. Casing Program: (ALL CASING WILL BE NEW API APPROVED MATERIAL.)**

(MW = 10 PPG IN DESIGN FACTOR CALCULATIONS.)

a. **Design Safety Factors:**

[illegible]

**DRILLING PLAN**  
**Nosler 12 Fed DB 4H**  
**HORIZONTAL FREN GLORIETA YESO WELL**

**\* While running each casing string, the pipe will be kept at a minimum of 1/3 full at all times to avoid approaching the collapse pressure of the casing.**

**b. Surface Casing Info**

The proposed casing setting depth is +/- 770' based on cross sections which show the estimated top of the rustler and top of salt. Drilling times will be plotted to find the hard section just above the salt. A mud logger will be on location to evaluate drill and cutting samples as long as circulation is maintained. If salt is penetrated, it will be obvious by the sudden increase in water salinity and surface casing will then be set above the top of salt. Our highly experienced drilling personnel has drilled many wells in this area and is able to easily identify the hard streak on the top of the salt.

**c. Intermediate casing**

We will run 9-5/8" intermediate casing to 2,000' and circulate cement to surface to get the Salt section behind pipe.

**d. Production casing**

We will run 7" x 5-1/2" production casing with a stage tool at the bottom of the 7", then a crossover from 7" to 5-1/2". There will be no cement in the lateral, only from the stage tool and up hole into the intermediate casing.

Burnett proposes to run a multiple packer system on the 5-1/2" production casing which will cross over into the 7" casing string (no cement in the lateral). An isolation packer will be set at or a few feet inside the lease offset limit and no completion perforations or ports will be placed between this isolation packer and the cement stage tool.

**3. Cementing Program (Note Yields and DV Tool Depth if Multiple Stage)**

**BLM to be notified prior to all cementing and tag operations in order to observe the operation if desired.**

**a. 13 3/8 " Surface Casing – Cement to Surface**

- 20 bbls fresh water spacer at 8.4 lbm/gal.
- Lead: 345 sx ExtendaCem – CZ 0.1250 lbm Poly-E-Flake. Fluid weight 13.5 lbm/gal, slurry yield 1.745 ft3/sx, total mixing fluid 9.18 gal/sx.
- Tail: 355 sx HalCem 2% Calcium Chloride – flake, fluid weight 14.8 lbm/gal, slurry yield 1.347 ft3/sx, total mixing fluid 6.39 gal/sx.
- Excess Cement 100%

**If cement does not circulate to surface, BLM will be notified of same, and advised of the plan to bring the cement to surface so BLM may witness tagging and cementing. If surface pressures when circulating indicate cement is low in the annulus, temperature survey results will be reviewed with BLM representative to determine the remediation needed.**

**DRILLING PLAN**  
**Nosler 12 Fed DB 4H**  
**HORIZONTAL FREN GLORIETA YESO WELL**

b. 9 5/8" Intermediate Casing:

- Lead: 500 sx ExtendaCem – CZ 0.1250 lbm Poly-E-Flake, Fluid weight 13.5 lbm/gal, slurry yield 1.745 ft<sup>3</sup>/sx, total mixing fluid 9.2 gal/sx.
- Tail: 225 sx HalCem fluid weight 14.8 lbm/gal, slurry yield 1.326 ft<sup>3</sup>/sx, total mixing fluid 6.34 gal/sx.

c. 7" and 5 1/2" Production Casing:

- Displace mud from lateral with fresh water.
- Open stage tool and pump the following cement. Lead: 250 sx EconoCem – C, 0.1250 lbm Poly-E-Flake, 0.25 lbm D-Air 5000, fluid weight 11.9 lbm/gal, slurry yield 2.464 ft<sup>3</sup>/sx, total mixing fluid 14.24 gal/sx.
- Tail: 160 sx Halcem, 0.50% LAP-1, 0.25 lbm D-Air 5000, 0.40% CFR-3, 0.10% HR-800, fluid weight 14.8 lbm/gal, slurry yield 1.33 ft<sup>3</sup>/sx, total mixing fluid 6.29 gal/sx.

The above cement volumes may be revised pending the caliper measurement from the open hole logs. **Casing/cementing design is to bring cement to the surface.**

*COA cement*

**4. Pressure Control Equipment:**

The blowout prevention equipment (BOPE) shown in **Exhibit R** will consist of a 2000 PSI Hydril Unit (annular) with hydraulic closing equipment. The equipment will comply with Onshore Order #2 and will be tested to 2,000 psi and maintained for at least ten (10) minutes. The 10-3/4" drilling head will be installed on the surface casing and in use continuously until total depth is reached. An independent testing company will be used for the testing. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having 2000 PSI WP rating.

Burnett is requesting to keep the Mud/Gas Separator on location but only connect if/when needed.

**5. Auxiliary Well Control and Monitoring Equipment:**

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve with the appropriate connections will be on the rig floor at all times.
- c. Hydrogen Sulfide detection and breathing equipment will be installed and in operation at a drilling depth of 1800' (which is more than 500' above top of Grayburg) and will remain until production casing is cemented.
- d. An H2S compliance package will be on all sites while drilling.



**DRILLING PLAN**  
**Nosler 12 Fed DB 4H**  
**HORIZONTAL FREN GLORIETA YESO WELL**

**6. Proposed Mud Circulation System (Closed Loop System)**

<u>Depth</u>	<u>Mud Wt</u>	<u>Vis</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 770'	8.4 - 9.5		NC	Fresh Water
770' - 2000' MD	10.0 max		NC	Brine Water
2000' – TD MD	10.0 max		NC	Brine Water

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Pason equipment will be used to monitor the mud system.

**7. Logging, Coring and Testing program:**

- a. No cores or DSTs are planned at this time.
- b. A mud logger will be on the well from 200' to TD.
- c. No open hole logs will be run.

**8. Potential Hazards:**

No abnormal pressures or temperatures are expected. Lost circulation is expected in the surface hole and not expected in the production hole. Water flows can occur periodically at various depths in the production hole. All personnel will be familiar with the safe operation of the equipment being used to drill this well. The maximum anticipated bottom hole pressure is 2351#. This is based upon the following formula of  $.445 \times \text{BH ft. estimate}$ . The anticipated bottom hole temperature is 105°F. This is based upon logs of drilled wells surrounding this well.

There is known H<sub>2</sub>S in this area. In the event that it is necessary to follow the H<sub>2</sub>S plan, a remote choke will be installed as required in Onshore Order 6. Refer to the attached H<sub>2</sub>S plan for details.

**9. Anticipated Start Date and Duration of Operation**

Road and location construction will begin after BLM has approved the APD and has approved the start of the location work. Anticipated spud date will be as soon as the location building work has been completed and the drilling rig is available to move to the location. Move in operations and drilling is expected to take approximately 25 days. If production casing is run, an additional 90 days would be required to complete the well and install the necessary surface equipment (pumping unit, electricity, flowline and storage facility) in order to place the well on production.

# Burnett Oil Company

Well: Nosler 12 Fed EG Well No. 6H  
 Site: Nosler 12 Fed  
 Project: Eddy County, New Mexico  
 Design: rev2

## SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4750.00	0.00	4750.00	0.00	0.00	0.00	0.00	0.00	KOP Begin 10'100' build
3	4800.00	5.00	4795.00	0.00	0.00	0.00	0.00	0.00	
4	5000.00	65.00	442.50	142.50	142.50	142.50	142.50	290.32	Begin 10'100' build
5	5079.73	91.00	89.59	520.27	262.45	201.59	71.26	740.07	Begin 91.00 lateral section
6	8207.27	81.00	89.59	5346.00	-462.83	3914.78	0.00	3942.04	PBHL/TD

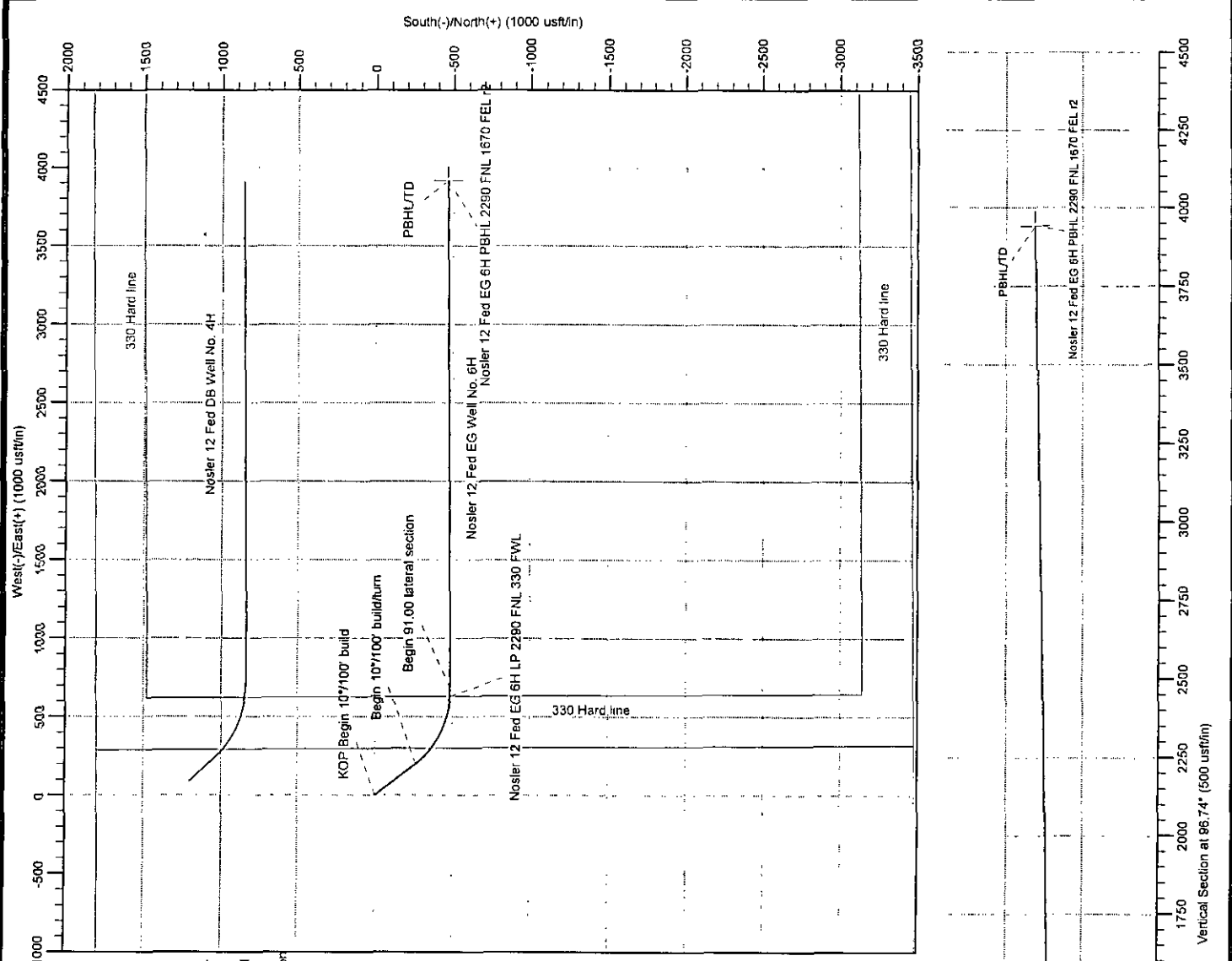
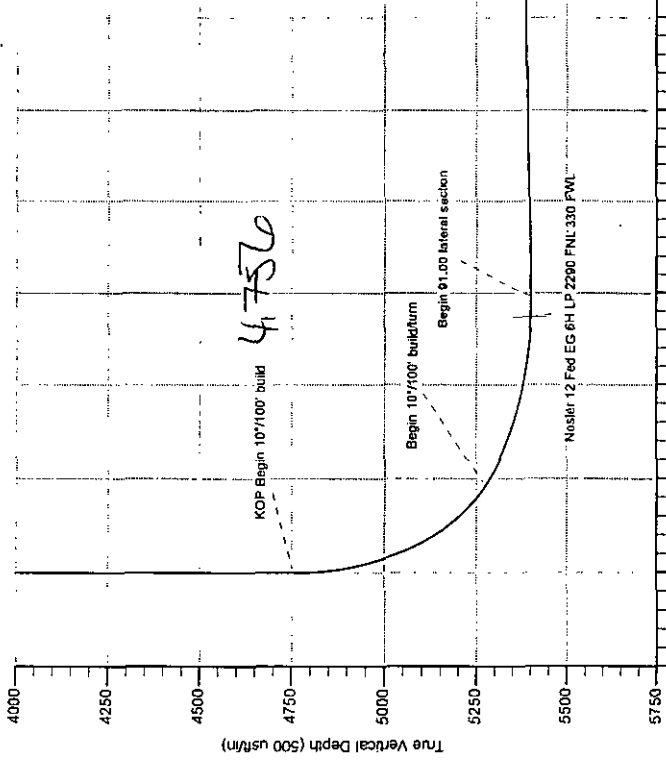
Approx Surf Loc. RKB Elevation: RKB=3887+12 @ 3979.00ust 0  
 US State Plane 1927 (Exact solution)  
 New Mexico East 3001

Northing: 873802.20  
 Easting: 653901.50  
 Latitude: 32.85132295  
 Longitude: -103.83218532

Total Correction (M => G) To convert a Magnetic Direction to a Grid Direction, Add 6.89°

**COKER**  
 DIRECTIONAL

True North: 3.27°  
 Magnetic North: 6.89°  
 Magnetic Field Strength: 45855.6mT  
 Dip Angle: 66.04°  
 Declination: 3.27°  
 Model: IGRF2010



# Standard\_report

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well Nosler 12 Fed EG Well No. 6H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3967+12 @ 3979.00usft ()
Site:	Nosler 12 Fed	MD Reference:	RKB=3967+12 @ 3979.00usft ()
Well:	Nosler 12 Fed EG Well No. 6H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev2	Database:	Dbase Nov0914

Project:	Eddy County, New Mexico	System Datum:	Mean Sea Level
Map System:	US State Plane 1927 (Exact solution)		
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Nosler 12 Fed	North:	673,802.20 usft	Latitude:	32.85136295
Site Position:		East:	653,901.50 usft	Longitude:	-103.83218532
From:	Map	Slot Radius:	13-3/16 "	Grid Convergence:	0.27 %
Position Uncertainty:	0.00 usft				

Well:	Nosler 12 Fed EG Well No. 6H, Surf Loc: 1800 FNL 300 FEL Sect 11-T17S-R31E Lot H	North:	673,802.20 usft	Latitude:	32.85136295
Well Position:		East:	653,901.50 usft	Longitude:	-103.83218532
Position Uncertainty:	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,967.00 usft

Wellbore:	Original Hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/28/2015	7.27	50.62	48,566

Design:	rev2	Phase:	PROTOTYPE	Tie On Depth:	0.00
Audit Notes:					
Version:					
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)	
	0.00	0.00	0.00	96.74	

Survey Tool Program	Date	6/19/2015
From (usft)	To (usft)	Survey (Wellbore)
0.00	9,207.27 rev2 (Original Hole)	MWD
		MWD - Standard

Standard\_report

Company: Burnett Oil Company Project: Eddy County, New Mexico Site: Nosler 12 Fed_ Well: Nosler 12 Fed EG Well No. 6H Wellbore: Original Hole Design: rev2				Local Co-ordinate Reference: TVD Reference: RKB=3967+12 @ 3979.00usft () MD Reference: RKB=3967+12 @ 3979.00usft () North Reference: Grid Survey Calculation Method: Minimum Curvature Database: Dbase Nov0914					
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50

Standard\_report

Company: Burnett Oil Company		Local Co-ordinate Reference:		Well Nosler 12 Fed EG Well No. 6H					
Project: Eddy County, New Mexico		TVD Reference:		RKB=3967+12 @ 3979.00usft ( )					
Site: Nosler 12 Fed_		MD Reference:		RKB=3967+12 @ 3979.00usft ( )					
Well: Nosler 12 Fed EG Well No. 6H		North Reference:		Grid					
Wellbore: Original Hole		Survey Calculation Method:		Minimum Curvature					
Design: rev2		Database:		Dbase Nov0914					
Planned Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
4,756.00	0.00	0.00	4,756.00	0.00	0.00	0.00	0.00	673,802.20	653,901.50
KOP Begin 10°/100' build									
4,800.00	4.40	142.50	4,799.96	-1.34	1.03	10.00	1.18	673,800.86	653,902.53
4,806.00	5.00	142.50	4,805.94	-1.73	1.33	10.00	1.52	673,800.47	653,902.83
4,900.00	14.40	142.50	4,898.49	-14.28	10.96	10.00	12.56	673,787.92	653,912.46
5,000.00	24.40	142.50	4,892.69	-40.60	31.15	10.00	35.70	673,761.60	653,932.65

# Standard\_report

Company: Burnett Oil Company			Local Co-ordinate Reference:									
Project: Eddy County, New Mexico			TVD Reference:									
Site: Nosler 12 Fed			MD Reference:									
Well: Nosler 12 Fed EG Well No. 6H			North Reference:									
Wellbore: Original Hole			Survey Calculation Method:									
Design: rev2			Database:									
			Minimum Curvature									
			Dbase Nov0914									
Planned Survey												
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V: Sec (usft)	Northing (usft)	Easting (usft)			
5,100.00	34.40	142.50	5,079.70	-79.50	61.00	10.00	69.91	673,722.70	653,962.50			
5,200.00	44.40	142.50	5,156.88	-128.79	99.59	10.00	114.14	673,672.41	654,001.09			
5,300.00	54.40	142.50	5,221.87	-189.95	145.75	10.00	167.05	673,612.25	654,047.25			
5,400.00	64.40	142.50	5,272.71	-258.15	198.09	10.00	227.02	673,544.05	654,099.59			
5,406.00	65.00	142.50	5,275.28	-262.45	201.39	10.00	230.81	673,539.75	654,102.89			
Begin 10°/100' build/turn												
5,500.00	68.32	132.92	5,312.58	-326.13	259.43	10.00	295.93	673,476.07	654,160.93			
5,600.00	72.43	123.24	5,346.23	-384.05	333.52	10.00	376.30	673,418.15	654,235.02			
5,700.00	76.99	114.00	5,372.65	-430.11	418.11	10.00	465.71	673,372.09	654,319.61			
5,800.00	81.85	105.11	5,391.04	-482.81	510.63	10.00	561.45	673,339.29	654,412.13			
5,900.00	86.91	96.44	5,400.85	-481.46	608.27	10.00	660.59	673,320.74	654,509.77			
5,979.73	91.00	89.59	5,402.30	-485.66	687.81	10.00	740.08	673,316.54	654,589.31			
Begin 91.00 lateral section												
6,000.00	91.00	89.59	5,401.95	-485.51	708.08	0.00	760.19	673,316.69	654,609.58			
6,100.00	91.00	89.59	5,400.20	-484.81	808.06	0.00	859.39	673,317.39	654,709.56			
6,200.00	91.00	89.59	5,398.46	-484.10	908.04	0.00	958.60	673,318.10	654,809.54			
6,300.00	91.00	89.59	5,396.71	-483.39	1,008.03	0.00	1,057.81	673,318.81	654,909.53			
6,400.00	91.00	89.59	5,394.97	-482.68	1,108.01	0.00	1,157.02	673,319.52	655,009.51			
6,500.00	91.00	89.59	5,393.23	-481.98	1,207.99	0.00	1,256.22	673,320.22	655,109.49			
6,600.00	91.00	89.59	5,391.48	-481.27	1,307.97	0.00	1,355.43	673,320.93	655,209.47			
6,700.00	91.00	89.59	5,389.74	-480.56	1,407.96	0.00	1,454.64	673,321.64	655,309.46			
6,800.00	91.00	89.59	5,387.99	-479.85	1,507.94	0.00	1,553.85	673,322.35	655,409.44			
6,900.00	91.00	89.59	5,386.25	-479.15	1,607.92	0.00	1,653.06	673,323.05	655,509.42			
7,000.00	91.00	89.59	5,384.50	-478.44	1,707.90	0.00	1,752.26	673,323.76	655,609.40			
7,100.00	91.00	89.59	5,382.76	-477.73	1,807.88	0.00	1,851.47	673,324.47	655,709.38			
7,200.00	91.00	89.59	5,381.02	-477.03	1,907.87	0.00	1,950.68	673,325.17	655,809.37			
7,300.00	91.00	89.59	5,379.27	-476.32	2,007.85	0.00	2,049.89	673,325.88	655,909.35			

Company:	Burnett Oil Company	Local Co-ordinate Reference:	Well Nosler 12 Fed EG Well No. 6H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3967+12 @ 3978.00ustft ()
Site:	Nosler 12 Fed_	MD Reference:	RKB=3967+12 @ 3979.00ustft ()
Well:	Nosler 12 Fed EG Well No. 6H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev2	Database:	Database: Nov0911

Planned Survey									
MD (usft)	Inc (°)	'Azi (azimuth) (°)	TVD (usft)	N/S (usft)	EW (usft)	Dleg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)
7,400.00	91.00	89.59	5,377.53	-475.61	2,107.83	0.00	2,149.09	673,328.59	656,008.33
7,500.00	91.00	89.59	5,375.78	-474.90	2,207.81	0.00	2,248.30	673,327.30	656,109.31
7,600.00	91.00	89.59	5,374.04	-474.20	2,307.80	0.00	2,347.51	673,328.00	656,209.30
7,700.00	91.00	89.59	5,372.29	-473.49	2,407.78	0.00	2,446.72	673,328.71	656,309.28
7,800.00	91.00	89.59	5,370.55	-472.78	2,507.76	0.00	2,545.92	673,329.42	656,409.26
7,900.00	91.00	89.59	5,368.80	-472.08	2,607.74	0.00	2,645.13	673,330.12	656,509.24
8,000.00	91.00	89.59	5,367.06	-471.37	2,707.73	0.00	2,744.34	673,330.83	656,609.23
8,100.00	91.00	89.59	5,365.32	-470.66	2,807.71	0.00	2,843.55	673,331.54	656,709.21
8,200.00	91.00	89.59	5,363.57	-469.95	2,907.69	0.00	2,942.76	673,332.25	656,809.19
8,300.00	91.00	89.59	5,361.83	-469.25	3,007.67	0.00	3,041.96	673,332.95	656,909.17
8,400.00	91.00	89.59	5,360.08	-468.54	3,107.65	0.00	3,141.17	673,333.66	657,009.15
8,500.00	91.00	89.59	5,358.34	-467.83	3,207.64	0.00	3,240.38	673,334.37	657,109.14
8,600.00	91.00	89.59	5,356.59	-467.12	3,307.62	0.00	3,339.59	673,335.08	657,209.12
8,700.00	91.00	89.59	5,354.85	-466.42	3,407.60	0.00	3,438.79	673,335.78	657,309.10
8,800.00	91.00	89.59	5,353.10	-465.71	3,507.58	0.00	3,538.00	673,336.49	657,409.08
8,900.00	91.00	89.59	5,351.36	-465.00	3,607.57	0.00	3,637.21	673,337.20	657,509.07
9,000.00	91.00	89.59	5,349.62	-464.30	3,707.55	0.00	3,736.42	673,337.90	657,609.05
9,100.00	91.00	89.59	5,347.87	-463.59	3,807.53	0.00	3,835.63	673,338.61	657,709.03
9,200.00	91.00	89.59	5,346.13	-462.88	3,907.51	0.00	3,934.83	673,339.32	657,809.01
9,207.26	91.00	89.59	5,346.00	-462.83	3,914.77	0.00	3,942.04	673,339.37	657,816.27
PBHL/TD									
9,207.27	91.00	89.59	5,346.00	-462.83	3,914.78	0.00	3,942.04	673,339.37	657,816.28



# Standard\_report

Company:	Burnett Oil Company	Local Coordinate Reference:	Well Nosler 12 Fed EG Well No. 6H
Project:	Eddy County, New Mexico	TVD Reference:	RKB=3967+12 @ 3979.00usft ()
Site:	Nosler 12 Fed	MD Reference:	RKB=3967+12 @ 3979.00usft ()
Well:	Nosler 12 Fed EG Well No. 6H	North Reference:	Grid
Wellbore:	Original Hole	Survey Calculation Method:	Minimum Curvature
Design:	rev2	Database:	Dbase Nov0914

## Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
4,756.00	4,756.00	0.00	0.00	KOP Begin 10'/100' build
5,406.00	5,275.28	-262.45	201.39	Begin 10'/100' build/turn
5,979.73	5,402.30	-485.66	687.81	Begin 91.00 lateral section
9,207.26	5,346.00	-462.83	3,914.77	PBHL/TD



**HYDRAULIC FACTURING PLAN**  
**Nosler 12 Fed ED 6H**  
**HORIZONTAL FREN GLORIETA YESO WELL**

**1. Wellbore Geology**

Formation	Top (TVD & MD)	Bottom (TVD & MD)	Zone Type (Useable water zone, confining zone, fracing zone)
Alluvium	Surface	678'	Usable Water - There is no fresh water here
Anhydrite	678'	860'	
Salt	860'	1864'	Confining Zone
Base Salt	1864'	2038'	
Yates	2038'	2342'	
Seven Rivers	2342'	2965'	
Queen	2965'	3388'	
Grayburg	3388'	3724'	
San Andres	3724'	5218'	
Glorieta	5218'	5296'	Zone to be Fraced
Yeso	5296'	7380'	

**2. Faulting and Fracture Maps**

- a. Map showing faults and fractures within ½ mile - see attached **Exhibit HF 2-1 thru 2-3**.

**3. Water Source Location Description or Map**

- a. Water will be obtained from Ray Westall ' line off of caprock – ogalla aquifer water well.
- b. Map (or by description) showing water source and location including general vicinity or facility name. Include access route (ROW:existing or proposed) and method of transportation - See attached **Exhibit HF 3-1 thru 3-2**.
- c. Water will be transferred from frac pit to the well location using temporary 10" aluminum pipe. Existing right of ways will be used.

**4. Plan for Hydraulic Fracturing Design**

- a. Estimated total volume of fluid to be 110,000 bbls of fresh water.
- b. Maximum anticipated surface pressure to be applied during HF is 7500 psi.
- c. Map(s) showing the following are attached (**EXHIBIT HF 4**) - not less than 1:24,000):
  1. Map and proposed deviation survey with trajectory of the wellbore being fraced.
  2. Map including direction and length of propagated fractures showing TVD of top and bottom of the fractures.

**HYDRAULIC FRACTURING PLAN**  
**Nosler 12 Fed EG 6H**  
**HORIZONTAL FREN GLORIETA YESO WELL**

3. Map including existing wellbore trajectories (vertical, horizontal, and directional) and TVD of wells within 1/2 mile of any portion of the wellbore to be fraced.
- d. Estimated minimum vertical distance between the top of the facture zone and nearest usable water zone – there is no usable, fresh water in the area.
- e. MD of proposed perforated or open-hole interval is 5905' – 9207'.

**5. Handling of Fluids**

**Below is the information about handling of fluids recovered between start of HF and approved plan of disposal of produced fluids:**

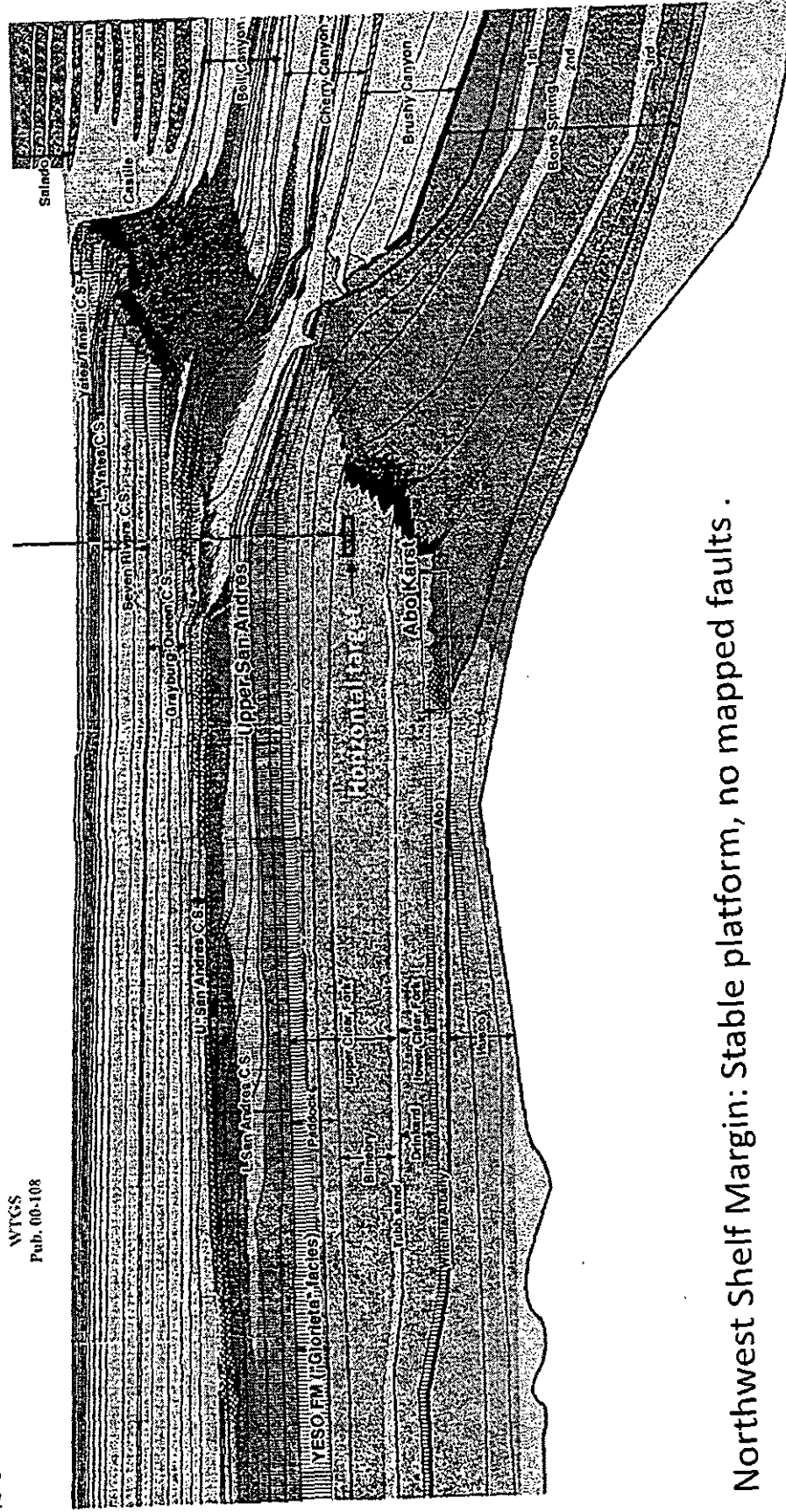
- a. Estimated volume of fluid to be recovered is 20,000 bbls.
  - b. Proposed methods of handling recovered fluids is 500 bbl above ground tanks.
  - c. Proposed disposal method of recovered fluid through flowlines from the well location to the Nosler Battery and then pipeline to commercial SWD.
- 6. At least 48 hours prior to commencement of fracking operations, the cement monitoring report will be submitted via Sundry Notice.**

# EXHIBIT HF 2-1

## Classic Permian Geology of West Texas and Southeastern New Mexico 75 Years of Permian Basin Oil & Gas Exploration & Development

WTGS  
Pub. 00-108

Nosler 12 DB 4H  
and  
Nosler 12 Fed EG 6H



Northwest Shelf Margin: Stable platform, no mapped faults .

Faulting Data Sources: WTGS, USGS, and NMBG&MR

The map displays the southeastern corner of New Mexico, bounded by the Texas border to the east and the Rio Grande to the south. Key features include:
 

- Basins:** Tucumcari Basin (northwest), Central Basin (northeast), Permian Basin (east), and several smaller basins including Pedernal, Estancia, Tularosa, and San Andres.
- Structural Units:** Laramide, Tertiary, and Quaternary units are delineated with different patterns and labels.
- Geographic Features:** The Rio Grande flows along the southern border. Major rivers like the Pecos, Rio Grande, and Rio Hondo are shown. Towns such as Lordsburg, Lordsburg, and Lordsburg are marked.
- Geological Structures:** The Rio Hondo Fault is indicated by a heavy dashed line. Other faults like the Sacramento and Sacramento are shown with solid lines. A large anticline is labeled 'Central Basin Platform'.
- Map Details:** The map includes a coordinate grid with latitude (32°N to 35°N) and longitude (103°W to 106°W). A north arrow is located in the upper left. A scale bar indicates distances up to 100 miles.

<https://geoinfo.nmt.edu/tour/state/lincoln/home.html> :

Figure 5. Tectonic map of southeastern New Mexico

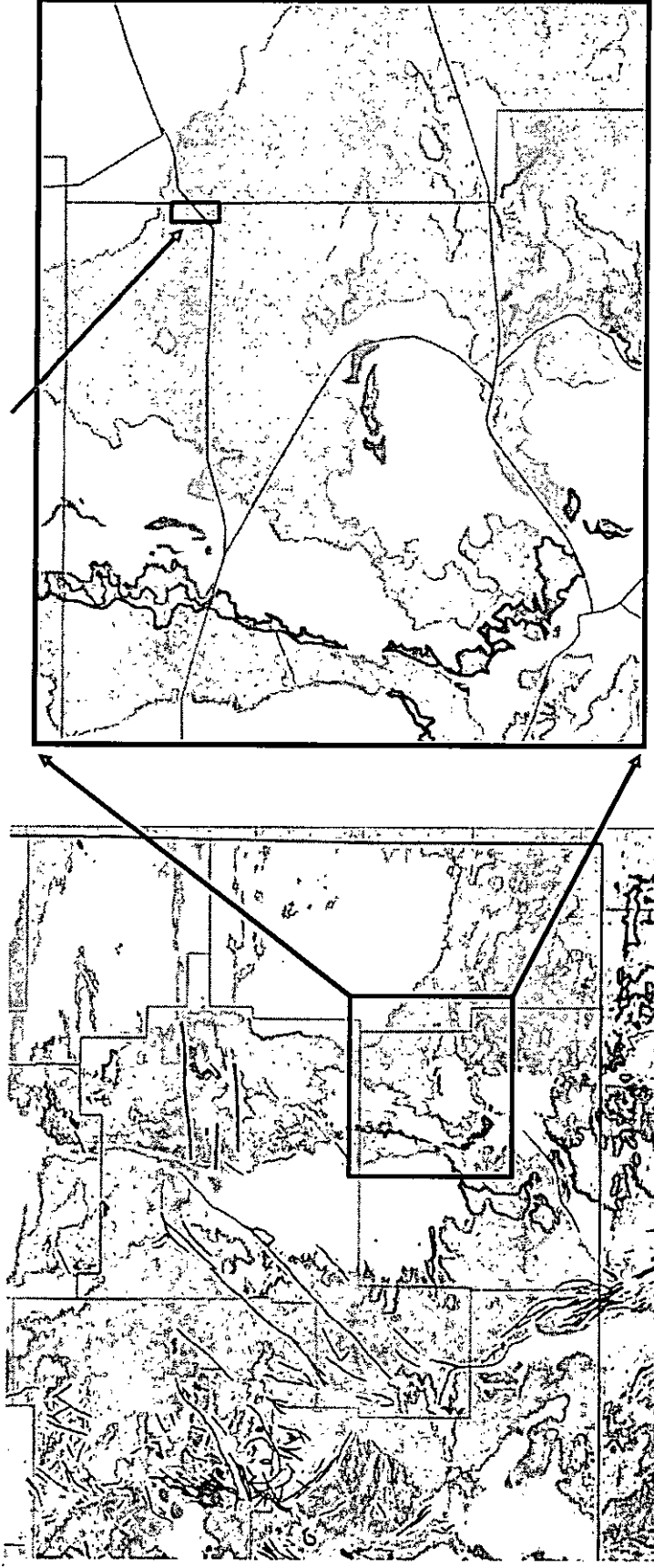
modified from Yuris (1991). L = Lincoln, MA = Mescalero Arch, gray shaded area=Ancestral Rocky Mountain Federal uplift, pink areas = intrusions of the Sierra Blanca intrusive complex and the Lincoln County porphyry belt.

## EXHIBIT HF 2-3

No faulting reported in area of  
Nosler 12 DB 4H

and

Nosler 12 Fed EG 6H



USGS, New Mexico Geology, "Geologic units and structural features derived from state geological maps but with a consistent set of attributes assigned by staff of the USGS Mineral Resources Program"; <http://mrdata.usgs.gov/same/nm.html>

EXHIBIT 3-1

8" & 12" Ray Westall Taps

N 12 Fed DB 4H Surf

N 12 Fed EG 6H Surf

Sec 12, 45k bbl

Nosler Battery

Partition Battery

Partition 24 Fed 3

Sec 24, 60k bbl

© 2015 Google



EXHIBIT 322

N112 Fed DB 2H Sum

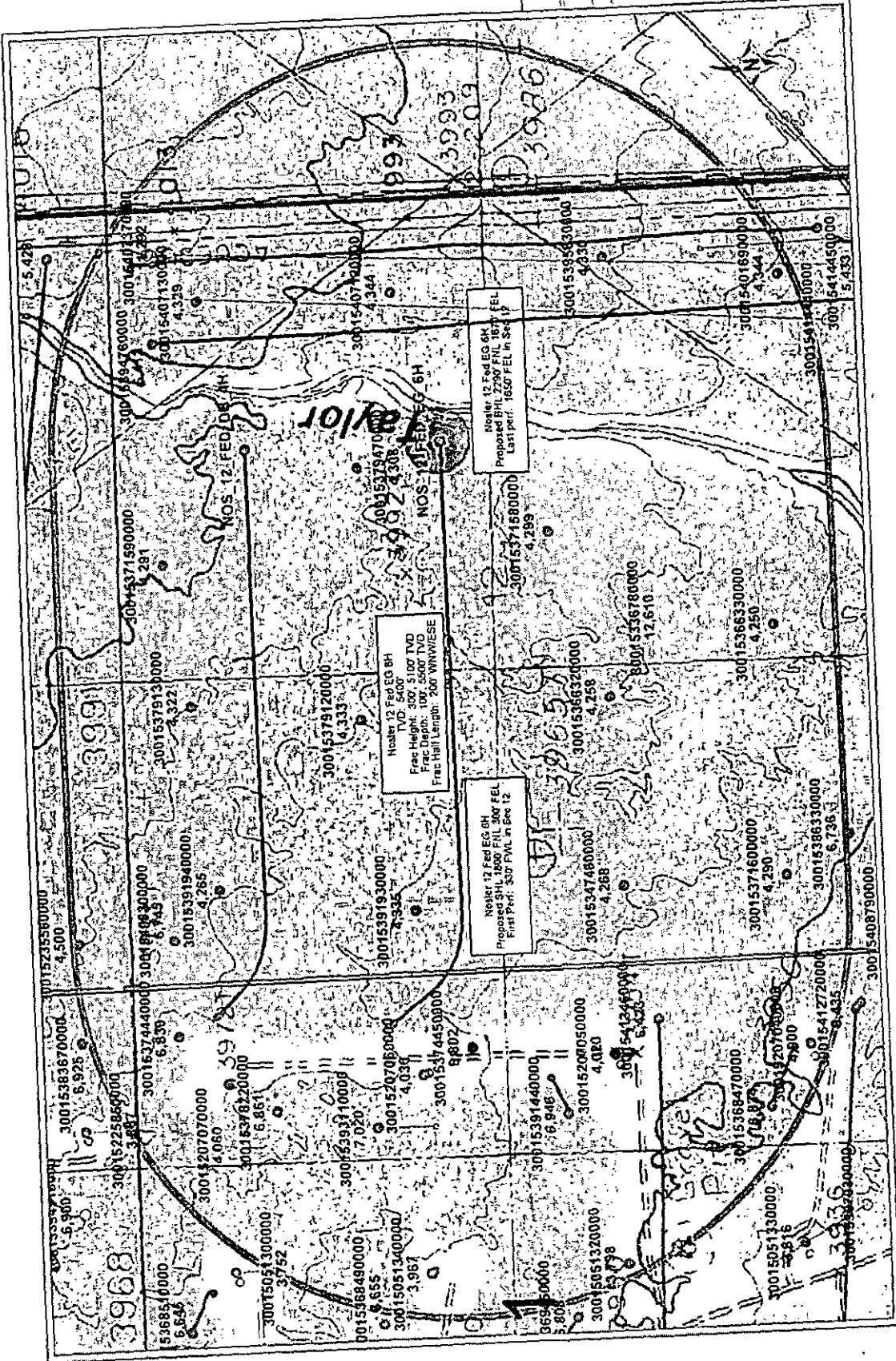
N112 Fed EG 6H Sum

Sec 12 45k boi

Nosler Battery

128 MPH

# EXHIBIT HF 4



Burnett Oil Company

NOSLER 12 FED EG 6H

Edgar Co. New Mexico

0 1,000  
FEET

WELL SYMBOLS

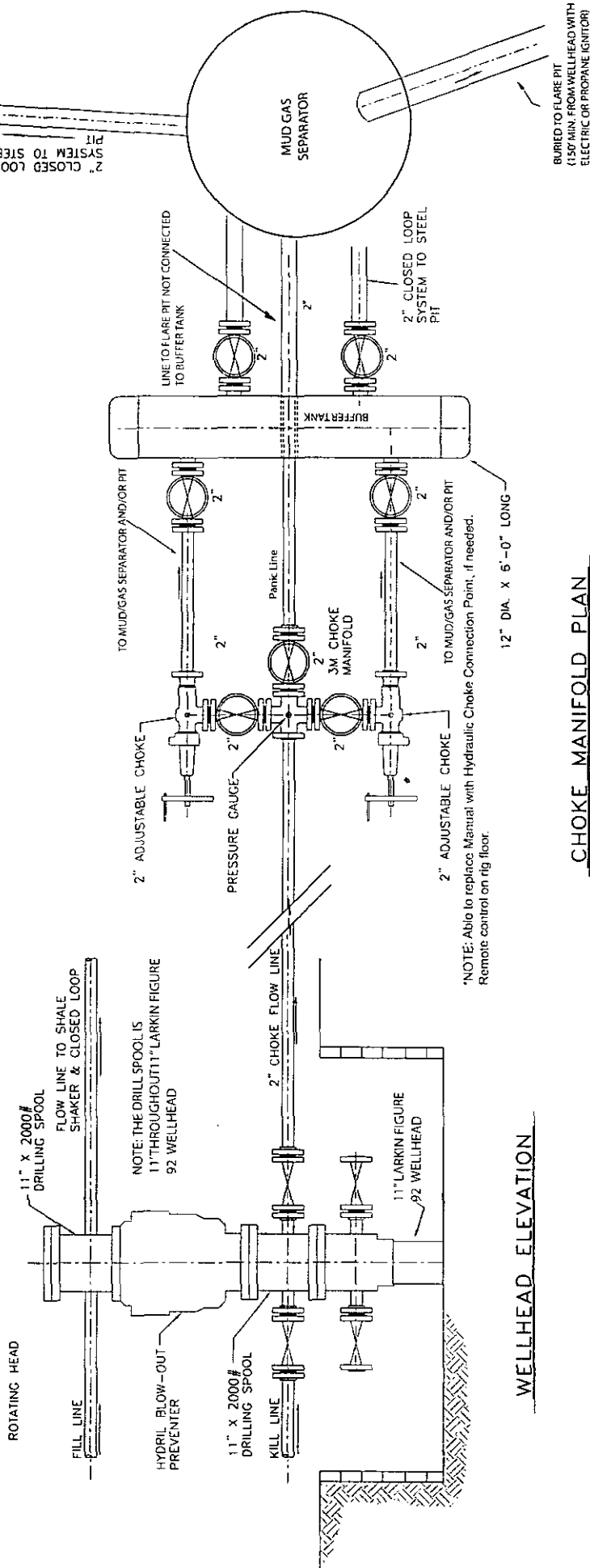
- Oil Well
- Gas Well
- LOCATION
- Drilling Well

By: G. R. R. Engineering, Inc.

June 18, 2015

# EXHIBIT R

NOTE: ALL VALVES AND PIPE ON CHOKE MANIFOLD ARE TO BE 2"



\*NOTE: MUD GAS SEPARATOR TO BE ON SITE DURING DRILLING BUT ONLY CONNECTED IF NEEDED.

## CHOKE MANIFOLD PLAN

## WELLHEAD ELEVATION

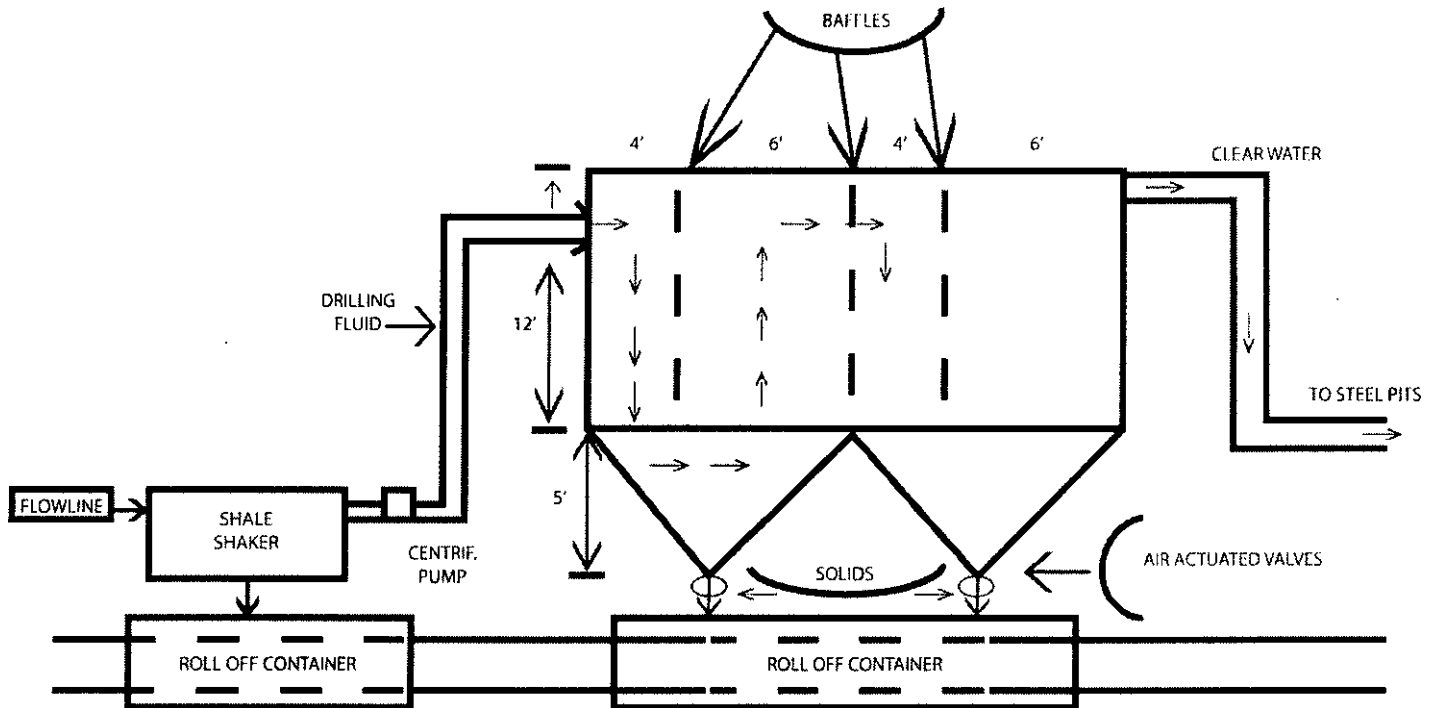
BURNETT OIL COMPANY, INC.  
BLOWOUT PREVENTER &  
CHOKE MANIFOLD DIAGRAM  
2000 PSI WORKING PRESSURE

EPS PROJECT NUMBER = 10-028  
DATE: JANUARY 29, 2010  
REVISION DATE (LGT): OCTOBER 15, 2014  
FILE NAME: 14.10.15 2MCHOKEMANIFOLD DRILLING



BURNETT OIL CO., INC.

## EXHIBIT S



### OPERATIONS & MAINTENANCE

Drilling Fluids from the wellbore will go through the flow line across the shale shaker. Solids will drop into roll off containers with baffles as drawn above. Baffles slow fluid velocity to allow solids to fall down through 6" air actuated valves into roll off containers. Clean water goes back out to the drilling fluid steel pits. Solids and any leftover liquid will be hauled to disposal.

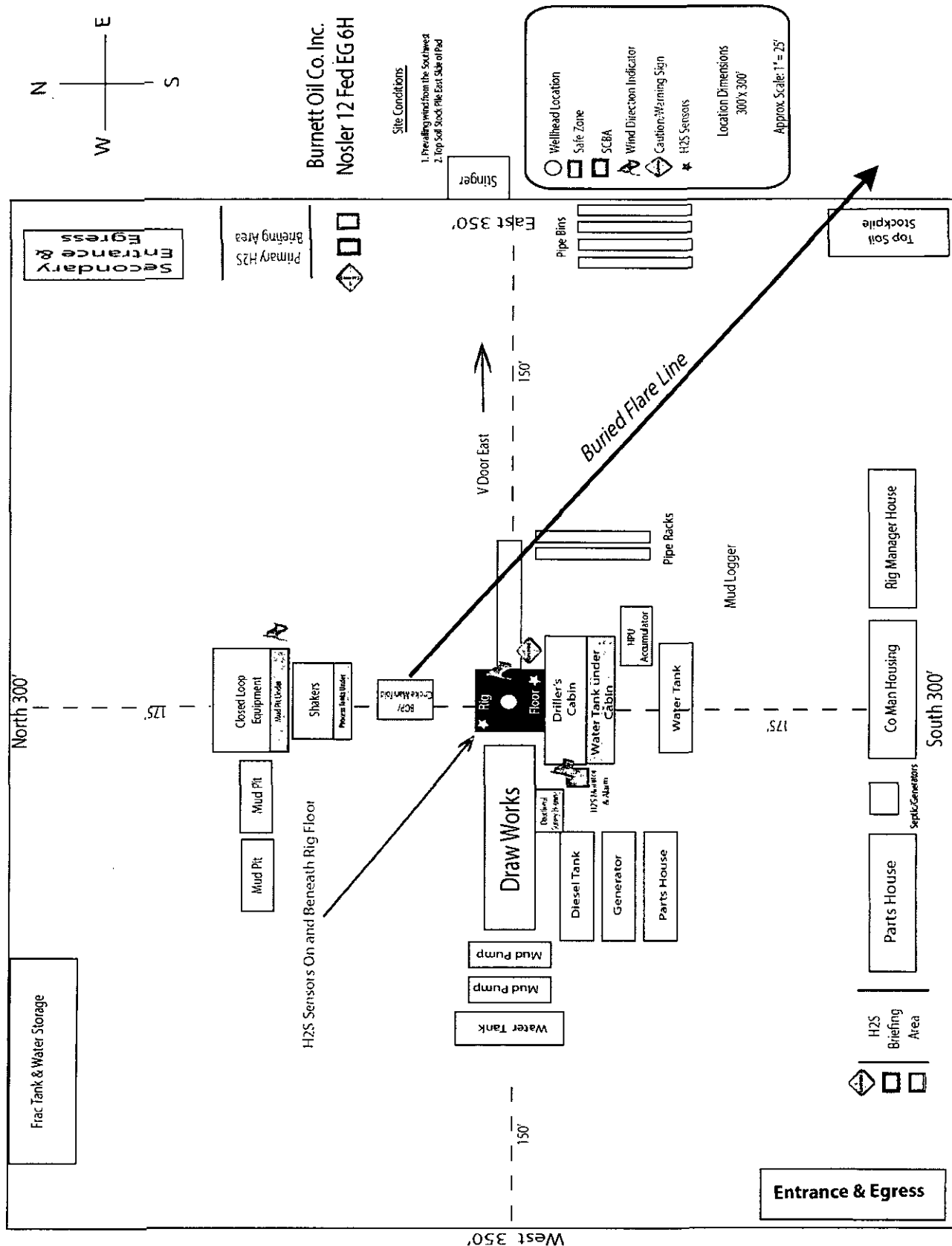
### INSPECTION

The closed loop equipment will be inspected daily by each tour and any necessary maintenance performed. Any leak in the system will be repaired and/or contained immediately. OCD will be notified within 48 hours. Remediation process started.

### CLOSURE PLAN

During drilling operations, all liquids, drilling fluids and cutting will be hauled off via CRO (Controlled Recovery Incorporated Permit R-9166)

# **EXHIBIT T** **Rig Layout** **Closed Loop Operations** **H2S Briefing Areas & Alarm** **Locations**





## HYDROGEN SULFIDE (H<sub>2</sub>S) PLAN & TRAINING

This plan was developed in accordance with 43 CFR 3162.3-1, section III.C, Onshore Oil and Gas Operations Order No. 6.

Based on our area testing H<sub>2</sub>S at 100 PPM has a radius of 139' and does not get off our well sites. There are no schools, residences, churches, parks, public buildings, recreation area or public within 2+ miles of our area.

### A. Training

#### 1. Training of Personnel

**All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in accordance with 43 CFR 3162.3-1, section III.C.3.a. Training will be given in the following areas prior to commencing drilling operations on each well:**

- a. The hazards and characteristics of Hydrogen Sulfide (H<sub>2</sub>S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures and the prevailing wind.
- d. The proper techniques for first aid and rescue procedures.
- e. **ATTACHED HYDROGEN SULFIDE (H<sub>2</sub>S) CONTINGENCY PLAN DRILLING EXHIBIT U.**
- f. **ATTACHED EMERGENCY CALL LIST FOR ANY ON SITE EMERGENCY DRILLING EXHIBIT V.**

#### 2. Training of Supervisory Personnel

**In addition to the training above, supervisory personnel will also be trained in the following areas:**

- a. The effects of H<sub>2</sub>S on metal components. If high tensile tubulars are to be used, personnel will be trained in special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well, blowout prevention and well control procedures.
- c. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan (if applicable.)

#### 3. Initial and Ongoing Training

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan (if applicable). This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.



## **B. H2S Drilling Operations Plan**

### **1. Well Control Equipment**

- a. Flare line(s) and means of ignition
- b. Remote control choke
- c. Flare gun/flares
- d. Mud-gas separator

### **2. Protective equipment for essential personnel:**

- a. Mark II Surviveair (or equivalent) 30 minute units located in the dog house and at the primary briefing area (to be determined.)
- b. Means of communication when using protective breathing apparatus.

### **3. H2S detection and monitoring equipment:**

- a. Three (3) portable H2S monitors positioned on location for best coverage and response. These units have warning lights at 10 PPM and warning lights and audible sirens when H2S levels of 15 PPM is reached. A digital display inside the doghouse shows current H2S levels at all three (3) locations.
- b. An H2S Safety compliance set up is on location during all operations.
- c. We will monitor and start fans at 1- ppm or less, an increase over 10 ppm results in the shutdown and installation of the mud/gas separator.
- d. Portable H2S and SO2 monitor(s).

### **4. Visual warning systems:**

- a. Wind direction indicators will be positioned for maximum visibility.
- b. Caution/Danger signs will be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

### **5. Mud program:**

- a. The mud program has been designed to minimize the volume of H2S circulated to the surface Proper mud weight, safe drilling practices and the use of H2S scavengers will minimize hazards when penetrating H2S bearing zones.

### **6. Metallurgy:**

- a. All drill strings, casings, tubing, wellheads, Hydril BOPS, drilling spools, kill lines, choke manifold, valves and lines will be suitable for H2S service.
- b. All elastomers used for packing and seals shall be H2S trim.

**7. Communication:**

- a. Cellular Telephone and/or 2-way radio will be provided at well site.
- b. Landline telephone is located in our field office.



BURNETT OIL CO., INC.

## EXHIBIT U - HYDROGEN SULFIDE (H<sub>2</sub>S) CONTIGENCY PLAN

### A. Emergency Procedures

In the event of a release of gas containing H<sub>2</sub>S, the first responder(s) must

1. Isolate the area and prevent entry by other persons into the 100 PPM ROE. Assumed 100PPM ROE = 3000'.
2. Evacuate any public places encompassed by 100 PPM ROE.
3. Be equipped with H<sub>2</sub>S monitors and air packs in order to control release.
4. Use the "buddy system" to ensure no injuries occur during the response.
5. Take precautions to avoid personal injury during this operation.
6. Have received training in the following:
  - a. H<sub>2</sub>S detection
  - b. Measures for protection against this gas
  - c. Equipment used for protection and emergency response.

### B. Ignition of Gas Source

Should control of the well be considered lost and ignition considered, care will be taken to protect against exposure to Sulfur Dioxide (SO<sub>2</sub>). Intentional ignition will be coordinated with the NMOCD and local officials. Additionally, the New Mexico State Police may become involved. NM State Police shall be the incident command on scene of any major release. Care will be taken to protect downwind whenever there is an ignition of gas.

### C. Characteristics of H<sub>2</sub>S and SO<sub>2</sub>

<u>Common Name</u>	<u>Chemical Formula</u>	<u>Specific Gravity</u>	<u>Threshold Limit</u>	<u>Hazardous Limit</u>	<u>Lethal Concentration</u>
Hydrogen Sulfide	H <sub>2</sub> S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO <sub>2</sub>	2.21 Air = 1	2 ppm	NA	1000 ppm

#### **D. Contacting Authorities**

Burnett Oil Co., Inc. personnel will liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD will be notified of the release as soon as possible but no later than four (4) hours after the incident. Agencies will ask for information such as type and volume of release, wind and direction, location of release, etc. Be sure all is written down and ready to give to contact list attached. Burnett's response must be in coordination with the State of New Mexico's Hazardous Materials Emergency Response Plan.

Directions to the site are as follows:

Burnett Office  
87 Square Lake Road (CR #220)  
Loco Hills, NM 88255

Loco Hills, New Mexico (2 miles East of Loco Hills on US Hwy 82 to C #220. Then North on CR #220 approximately one (1) mile to office.



BURNETT OIL CO., INC.

## EXHIBIT V - EMERGENCY NOTIFICATION LIST

### BURNETT CONTACTS

**Burnett's New Mexico Office** 817.332.5108 x202  
87 Square Lake Road (CR #220) Loco Hills, New Mexico 88255  
**Directions: Loco Hills, NM – 2 miles east of Loco Hills on US Hwy 82 to CR#220. Then North on CR #220 approximately one (1) mile to office.**

**Belton Mathews – BOCI District Superintendent (NM)** Cell - 575.703.9601

**Burnett Oil Home Office** 817.332.5108  
Burnett Plaza – Suite 1500 | 801 Cherry Street – Unit #9| Fort Worth, Texas 76102

Walter Glasgow Office - 817.583.8871  
VP of Operations – Permian Basin/New Mexico Cell - 817.343.5567

Brady Sullivan Office – 817.583.8722  
Petroleum Engineer Cell – 817-727-1377

Leslie Garvis Office – 817.583.8730  
Regulatory Coordinator Cell – 713.819.4371

### SHERIFF/POLICE CONTACTS

Eddy County Sheriff 911 or 575.677.2313  
New Mexico State Police 575.746.2701

### FIRE DEPARTMENT

Loco Hills Fire Department (VOLUNTEER ONLY) 911 or 575.677.2349  
For Medical and Fire (Artesia) 575.746.2701

### AIR AMBULANCE

Flight for Life Air Ambulance	(Lubbock)	806.743.9911
Aerocare Air Ambulance	(Lubbock)	806.747.8923
Med Flight Air Ambulance	(Albuq)	505.842.4433
S B Med Svc Air Ambulance	(Albuq)	505.842.4949

### FEDERAL AND STATE

US Bureau of Land Management (Carlsbad)	575.361.2822	575.234.5972
New Mexico Oil Conservation Division (Artesia)		575.748.1283
New Mexico Emergency Response Commission (24 hour)		575.827.9126
Local Emergency Planning Operation Center (Artesia)		505.842.4949
National Emergency Response Center (Washington, DC)		800.424.8802

### OTHER IMPORTANT NUMBERS

Boots & Coots IWC	800.256.9688
Cudd Pressure Control	432.570.5300
Halliburton Services	575.746.2757
BJ Service	575.746.2293

**THIS MUST BE POSTED AT THE RIG WHILE ON LOCATION**

**BURNETT OIL CO., INC.**  
INTERIM RECLAMATION PLAT

1800' FNL, 300' FEL

NOT TO SCALE





## **SURFACE USE PLAN**

### **1. Existing Roads:**

- a. All roads into the location are shown on the Vicinity Map (**Exhibit D**).
- b. Directions to location: From the intersection of Hwy 82 (Lovington Highway) and State Road 529 go Northeast approx. 2 miles . Turn North onto Lease Road for 0.12 miles, then Northwest for 0.19 miles. Turn North and go 0.26 miles , then Northeast 0.58 miles. Go North 0.90 miles, then east for 0.35 miles. Go North 0.27 miles to proposed Lease Road on right. (**Exhibits A, B & D1**)
- a. In preparation for the new well site, water and a road grader is used to smooth nearby roads and patch holes. This is standard procedure used for the maintenance of existing roads. Existing roads will be improved and maintained according to the standards set forth in section 2 below.

### **2. New or Reconstructed Access Roads:**

- a. The well site layout, Form C-102 and **Exhibits A & B** show the proposed road which will be utilized. **Exhibit D** shows the existing roads surrounding the location.
- b. Proposed new lease road will be 105.8' in length and will enter the location on the Southwest corner of the location.
- c. All new roads will be constructed and all existing roads maintained according to the standards below:
  1. Approximately six (6) inches of top soil will be stripped from the proposed access road in preparation for construction. The removed top soil will be spread along the edge of the road and the ditch and will be seeded with the BLM approved seed mix.
  2. All construction material will be native caliche. The driving surface will be made of 6" rolled and compacted caliche. It may be available at the proposed location. If unavailable on location or road, caliche will be hauled from nearest BLM approved caliche pit.
  3. All access roads will not exceed fourteen (14) feet in width and will disturb as little surface as possible. The maximum width of disturbance during construction shall not exceed twenty (20) feet. Where possible, no improvements will be made on un-surfaced access roads other than to remove vegetation, road irregularities, safety issues or to fill low areas to prevent standing water.
  4. Crowning shall be done on the access road driving surface and shall have an approximate grade of 2% from the tip of the crown to the edge of the driving surface.
  5. Ditching will be done on both sides of the road the entire length of the road to control drainage. The ditch will have a minimum depth of one (1) foot below and a down sloping berm of six ( 6) inches above the ground level. All ditching will be completed as per BLM requirements.
  6. Vehicle turnouts will be constructed on the road with an interval spacing distance less than 1,000 feet. Turnouts will be constructed on all blind curves and shall conform to with BLM standards.

## SURFACE USE PLAN

7. The access road will be constructed and maintained in a way that will prevent soil erosion and accommodate all weather traffic in accordance with BLM guidelines.
8. Fence Cuts: No; Cattle guards : No; Culverts: No; Cuts and Fills: Not significant.

### 3. Location of existing wells:

Please refer to **Exhibit C** and/or **Exhibit E** for the location of all wells within a one (1) mile radius of the proposed well site.

### 4. Location of existing and/or proposed production facilities:

- a. See **Exhibits F thru K** for the location of existing Nosler Tank Battery facility on this Federal Lease NMLC-029415B (SE1/4 SE1/4) of the Section 12. See **Exhibit X** for layout of existing, previously approved tank battery.
- b. Flowline from the new well pad site is on this same lease. The required flowline will be laid above ground and along existing lease road and right of way from Nosler 12 EG 6H to the Nosler Battery (**Refer to Exhibits F-K**). The flowline will cross the Taylor Draw through an existing right of way. The flowline(s) will be 3" poly pipe, 9989.0 ft. in length (**Refer to Exhibits F-K**) and will transport oil, gas and water. All flowlines will be 3" low pressure 3" SDR7 4710 poly pipe with a typical working pressure of 60 psi. The SDR7 4710 poly pipe has a maximum pressure rating of 335 psi.

### 5. Location and Type of Water Supply:

All water to be used in drilling this well will be brine or fresh water transported by truck over existing and above proposed lease road from Loco Hills, New Mexico or produced water furnished from our existing waterflood facilities in the area.

### 6. Construction Materials:

All construction material for the roadway and drilling pad will be native caliche from the nearest BLM approved pit or from existing available deposits found on the location. All will be in accordance with the drilling stipulations for this well. If caliche is flipped on location, the following process will be followed:

- a. A caliche permit will be obtained from BLM by the dirtworks vendor prior to pushing up any caliche.
- b. The top 6" of top soil will be pushed off and stockpiled on the East side the location. Once the well is drilled the stock piled top soil will be used for interim reclamation and spread along the areas where the caliche is picked up and the location size is reduced. Neither caliche nor top soil will be piled outside the well pad. Top soil will be stockpiled along the edge of the pad as depicted in the attached well diagram (**Exhibit T**).
- c. An area approximately 120'x120' is used within the proposed site to remove caliche.
- d. Subsoil is removed and piled alongside the 120' x120' area within the pad and then pushed back once the caliche has been removed.
- e. When caliche is found, material will be stock piled within the pad site to build the location and road.

## SURFACE USE PLAN

### 7. Methods of Handling Waste Disposal:

- a. Drill cuttings will be disposed of in a closed loop system using steel haul off tanks. All drilling fluids will be hauled off location to a contracted off lease disposal location.
- b. Trash, waste paper, garbage and junk will be placed in a portable, screened trash container on location. All trash and debris will be transported to an authorized off-lease disposal station within thirty (30) days following the completion activities.
- c. A properly maintained Porto-john will be provided for the crews during drilling and completion operations. All will be removed after all completion operations have ended.
- d. Oil produced during testing will be put into steel storage tank for later sales.
- e. Water produced during testing operations will be put in the steel frac tanks pit until well is turned to the lease tank battery. All produced water will be disposed of through one of our approved disposal methods.

### 8. Ancillary Facilities:

There are no planned ancillary facilities for this well.

### 9. Well Site Layout:

- a. **Exhibit T** shows the relative location and dimensions of the drilling pad and related components. The pad size will be 350 ft.x 300 ft with stinger on East side. Only minor leveling of the drilling site is anticipated.
- b. The V-Door will be East. Entry will be on the Southwest corner of the location. Topsoil stockpile will be on the East side of the location.
- c. On site was approved on 10 March 2015.
- d. All permanent power for the well site is provided and handled by CVE. Will be tied into existing power in the vicinity. CVE will handle all ROW approvals.
- e. If temporary power is needed, the lines will follow the road and tie into existing power until permanent power can be installed by CVE. All temporary power lines will be buried. The lines will be buried in a 6" wide by 6" deep trench. The trench will be open approximately 4 hours but not longer than 8 hours. **Exhibits O-Q** show the temporary electrical lines.

### 10. Plans for surface Reclamation:

- a. After drilling and successful completion operations are finished, all equipment and other materials not required for normal production operation will be removed. **(Refer to Exhibit W)**
- b. **Burnett Oil respectfully requests two (2) years to downsize the drilling location in order to have room for equipment to fracture stimulate three (3) to four (4) intervals. Each one requires a large volume fracture treatment with several pumps, a large sand mover, several frac tans, a treatment can and various other vehicles and equipment. Burnett will, if all fracs are completed before the two (2) years, contact BLM to downsize the location.**

Refer to attached **Exhibit W** which shows resulting location after downsizing and showing the sides of location where the caliche would be left for use of kill trucks, hot oil trucks, foam units or whatever is needed to service unit, which is what has to happen if the location is reclaimed on all four (4) sides to the safety anchors.

## SURFACE USE PLAN

- c. The pad size will be reduced to the amount required for normal operation of the producing well. This reduced portion will be restored to the BLM stipulations. (See Exhibit W)
- d. If a well is abandoned, the surface location and unneeded road will be restored according to BLM stipulations within ninety (90) days of final abandon and sit re-seeded with BLM (#2) seed mix.

### 11. Surface ownership:

All lands are owned by the U.S. Government and administered by the Bureau of Land Management. The surface is multiple use with the primary use of the region for the production of oil and gas and the grazing of livestock.

### 12. Other information:

- a. The area surrounding the well site is a sandy dunal featured area. The area is relatively flat with small hills and sand dunes. The topsoil is fine, deep sand underlain by caliche. Vegetation cover is generally sparse and consists of mesquite, yucca, shinnery oak and sparse native grasses. Wildlife in the area includes deer, coyotes, rabbits, rodents, reptiles, dove and quail.
- b. No permanent or live water is found in the general proximity of this area.
- c. No dwellings are found within two (2) miles of this location.
- d. There is intermittent cattle grazing and hunting in the area; however, the principal land use is for oil and gas production.

### 13. Bond Coverage:

Current Bonds are BLM Bond # NMB000197. The Surety Bond is #B000863.

Both the BLM Bond #NMB000197 and the Surety Bond # B000863 are effective May 21, 2004 and remain in place.

The Burnett Oil Co., Inc. representatives responsible for ensuring compliance of the surface use plan are listed below:

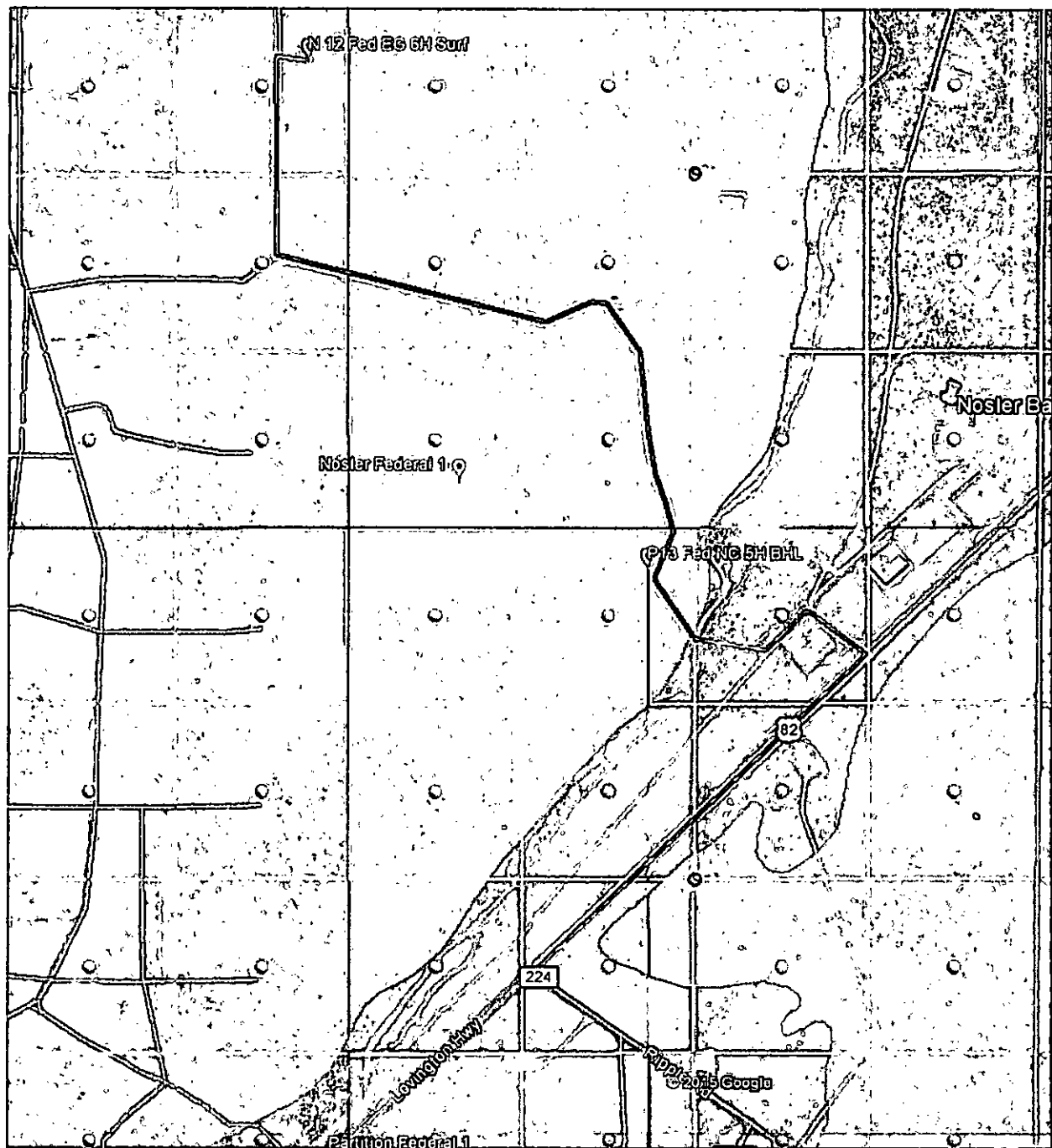
#### Drilling & Production/Field Representative

Belton Matthews  
District Superintendent  
Burnett Oil Co. Inc.  
P.O. Box 188  
Loco Hills, New Mexico 88255  
575.677.2313 (office)  
575.703.9601 (cell)  
bmathews@burnettoil.com

#### Regulatory Representative

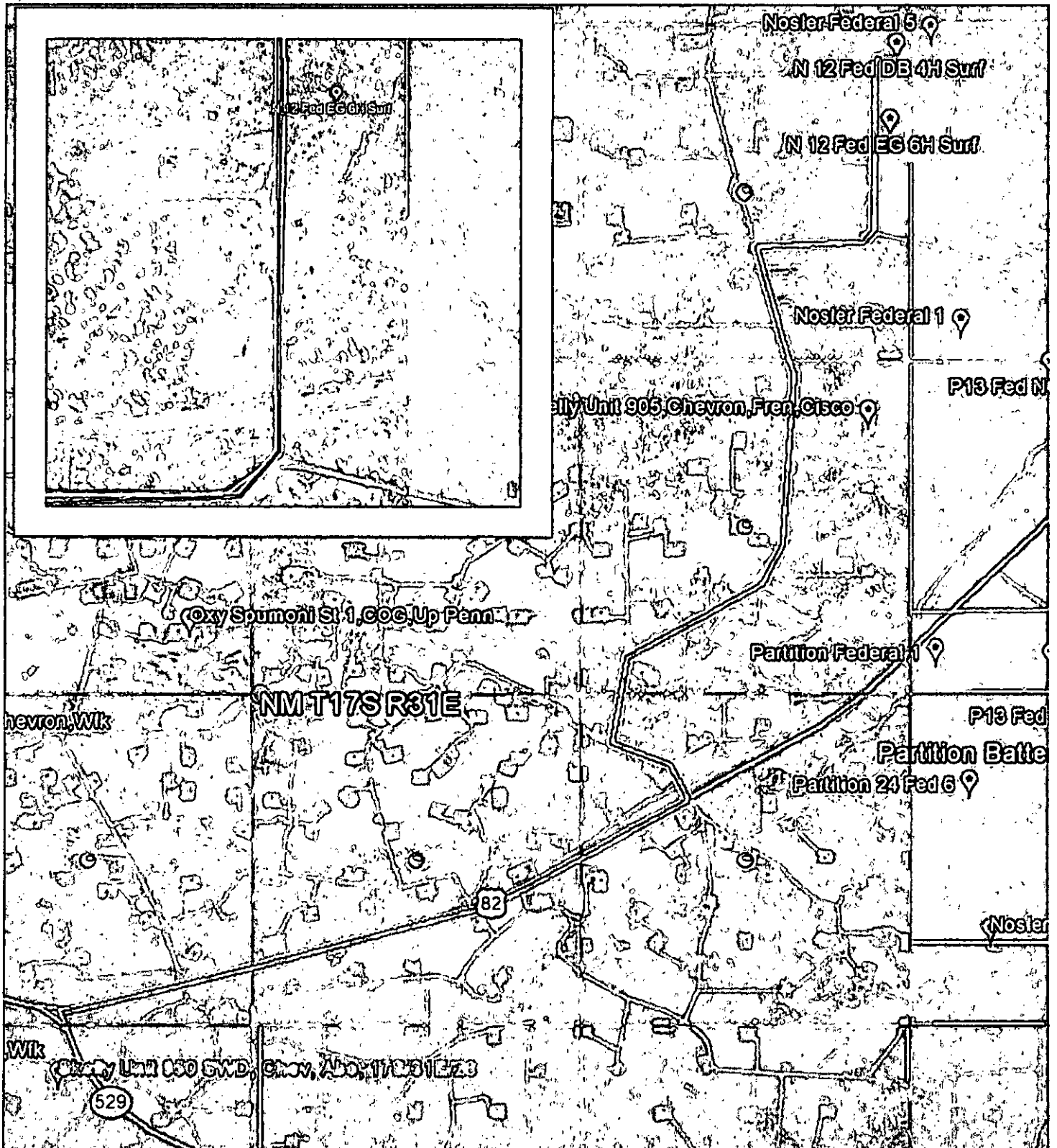
Leslie M. Garvis  
Regulatory Coordinator  
Burnett Oil Co. Inc.  
Burnett Plaza – Suite 1500  
801 Cherry Street – Unit #9  
Fort Worth, Texas 76102-5108  
817.332.5108 (office)  
713.819.4371 (cell)  
lgarvis@burnettoil.com

# EXHIBIT D-1



From the Junction of Lovington Highway and Ripple Road, go Northeast on Lovington Highway 0.85 miles. Turn North on Lease Road 818 feet to battery and follow Lease Road Southwest 0.35 miles. Go Northwest 0.19 miles, then North 0.39 miles. Go Northwest 0.49 miles, then North 0.24 Miles to Proposed Lease Road on Right (Proposed road indicated by red line)

# EXHIBIT D-1

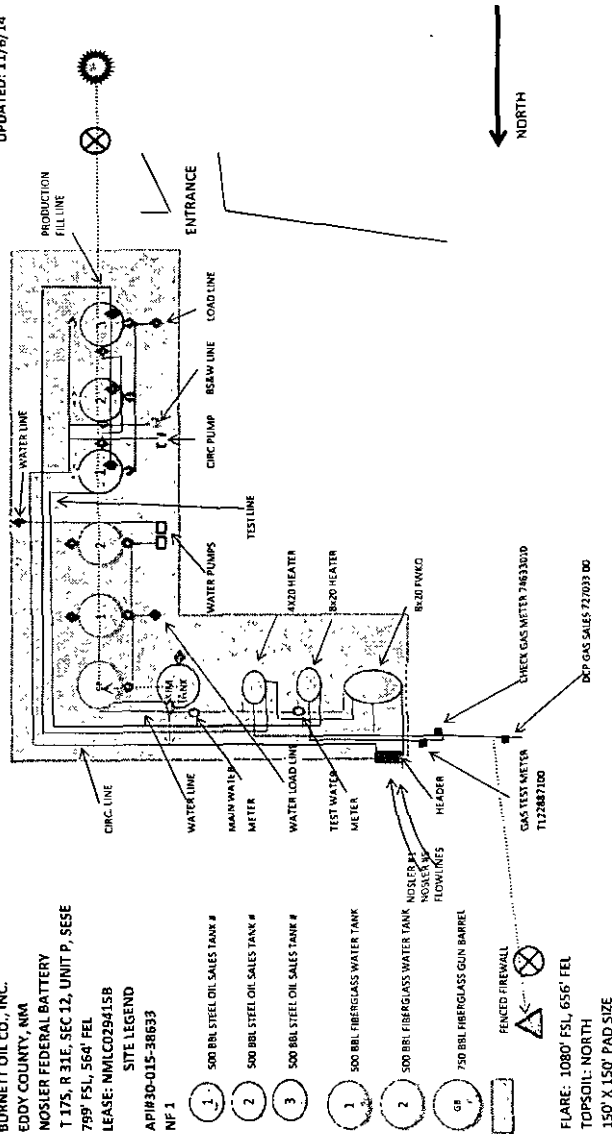


From the intersection of Hwy 82 (Lovington Highway) and State Road 529 go Northeast approx. 2 miles . Turn North onto Lease Road for 0.12 miles, then Northwest for 0.19 miles. Turn North and go 0.26 miles , then Northeast 0.58 miles. Go North 0.90 miles, then east for 0.35 miles. Go North 0.27 miles to proposed Lease Road on right (Red line is proposed road).

EXHIBIT X

BURNETT OIL CO., INC.  
EDDY COUNTY, NMA  
NOSLER FEDERAL BATTERY  
T 175, R 31E, SEC 12, UNIT P, SESE  
799' FSL, 564' FEL  
LEASE: NW/4 SEC 12, T175R31E  
API# 30-015-38633  
NF 1

UPDATED: 11/6/14

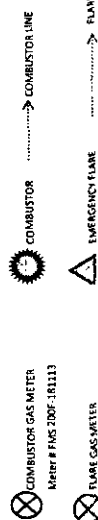


- NOSLER FEDERAL BATTERY (NOSLER #1 ACTIVE WELL)
- 3 - 500 BBL Oil Tanks - No tank numbers yet or strappings - waiting on Holly
  - 1 - 210 BBL Skim Tank
  - 2 - 500 BBL Water Tanks
  - 1 - 750 BBL Fiberglass Gun Barrel
  - 1 - FWKO
  - 1 - DCP Gas Sales Meter (Digital) 727033.00
  - 1 - Gas Production Check Meter (Digital) 74633010
  - 1 - Gas Test Meter (Digital) T122887100
  - 1 - Production Water Meter - Digital
  - 1 - Test Water Meter - Digital
  - 1 - Production Heater Treater 8 x 20
  - 1 - Test Heater Treater 4 x 20
  - Add Heater Calc

VALVE SEALED YES/NO

VALVE LEGEND	TANK BEING HAULED	TANK BEING PRODUCED	EXCEPTIONS:
LOAD LINE VALVE	YES	YES	
FULL LINE VALVE	YES	NO	
EQUALIZER LINE	YES	NO	
CIRC LINE VALVE	YES	YES	
BS&W LOAD LINE	YES	YES	
WATER LINE VALVE	NO	NO	

SEAL OFF WHILE CIRCULATING PRODUCING TANKS; SEAL ON AFTER CIRCULATING COMPLETE  
SEAL OFF WHILE CLEANING TANKS; SEAL ON AFTER TANKS ARE CLEAN



NOTE:

PRODUCED WATER IS TRUCK HAULED TO PUBLIC DISPOSAL  
WATER PUMPS ARE SET, BUT NOT IN USE



BURNETT OIL CO., INC.  
EDDY COUNTY, NM  
NOSLER FEDERAL BATTERY  
T 175, R 31E, SEC 12, UNIT P  
799' E.S., 564' E.E.  
LEASE: NMILC0294158

NOSLER BATTERY  
NOSLER FEDERAL 1  
NOSLER FEDERAL 5

**ATTACHMENT TO SITE FACILITY DIAGRAM**

General: sealing of valves, sales by tank guage

**Production Phase:**

Load Line Valves sealed closed. Fill valve to tank that is in production will be open.  
Equalizer valve to tank that is in production will be open. Circulation valves will be opened as necessary, then resealed.  
BS&W Load Line valve will be sealed at all times, unless cleaning tanks, then resealed once tank maintenance is complete.

**Sales Phase:**

The tank from which sales are being made will be isolated by sealing closed the fill line valve, circulating valve, and the equalizer valve during sales and opening the sales valve. Upon completion of the sale, the sales valve will be resealed.  
Sales by truck will be by tank gauge.

	VALVE	PRODUCTION PHASE	SALES PHASE	CIRCULATING	NOTE
1	LOAD LINE VALVE	CLOSED	OPEN	CLOSED	
2	PRODUCTION FILL LINE VALVE	OPEN OR CLOSED	CLOSED	CLOSED OR OPEN	
3	EQUALIZER LINE VALVE	OPEN	CLOSED	CLOSED OR OPEN	
4	CIRCULATING LINE VALVE	OPEN OR CLOSED	CLOSED	OPEN	RE-SEALED ONCE CIRCULATING IS COMPLETE
5	BS&W LOAD LINE VALVE	CLOSED	CLOSED	CLOSED	OPEN FOR TANK MAINTENANCE, RESEALED ONCE MAINTENANCE IS COMPLETE
6	WATER LINE VALVE	OPEN	NA	NA	WATER TANKS ARE ISOLATED FROM OIL PRODUCTION TANKS WATER IS TRUCK-HAULED FROM FORWARD LOAD LINES



## FINAL CERTIFICATION MEMO

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that Burnett Oil Co. Inc. is responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 22 day of June 2015.

Signed: Walter M. Glasgow

Printed Name: Walter Glasgow

Position: VP of Operations - Permian Basin/New Mexico

Company: Burnett Oil Co., Inc.

Address: 801 Cherry Street, Suite 1500, Unit #9, Fort Worth, Texas 76108

Telephone: 817.332.5108

Email: wglasgow@burnettoil.com

## PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Burnett Oil Co., Inc.
LEASE NO.:	NMLC029415B
WELL NAME & NO.:	Nosler 12 Fed EG 6H
SURFACE HOLE FOOTAGE:	1800'/N & 300'/E
BOTTOM HOLE FOOTAGE:	2290'/N & 1670'/E SEC 12
LOCATION:	Section 11, T.17 S., R.31 E., NMPM
COUNTY:	Eddy County, New Mexico

### TABLE OF CONTENTS

Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

- ☐ **General Provisions**
- ☐ **Permit Expiration**
- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
- ☒ **Special Requirements**
  - Lesser Prairie-Chicken Timing Stipulations
  - Ground-level Abandoned Well Marker
  - Cultural
- ☐ **Construction**
  - Notification
  - Topsoil
  - Closed Loop System
  - Federal Mineral Material Pits
  - Well Pads
  - Roads
- ☐ **Road Section Diagram**
- ☒ **Drilling**
  - H2S requirements-Onshore Order 6
  - Waste Material and Fluids
- ☒ **Production (Post Drilling)**
  - Well Structures & Facilities
  - Pipelines
  - Electric Lines
- ☐ **Interim Reclamation**
- ☐ **Final Abandonment & Reclamation**

## **I. GENERAL PROVISIONS**

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

## **II. PERMIT EXPIRATION**

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

## **III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES**

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

## **IV. NOXIOUS WEEDS**

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

## **V. SPECIAL REQUIREMENT(S)**

### **Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:**

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

**Ground-level Abandoned Well Marker to avoid raptor perching:** Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

## **VI. CONSTRUCTION**

### **A. NOTIFICATION**

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

### **B. TOPSOIL**

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

### **C. CLOSED LOOP SYSTEM**

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

### **D. FEDERAL MINERAL MATERIALS PIT**

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

### **E. WELL PAD SURFACING**

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

### **F. EXCLOSURE FENCING (CELLARS & PITS)**

**Exclosure Fencing**

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, 'Exclosure Fence Illustrations, Figure 1, Page 18.)

**G. ON LEASE ACCESS ROADS****Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

**Surfacing**

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

**Crowning**

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

**Ditching**

Ditching shall be required on both sides of the road.

**Turnouts**

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

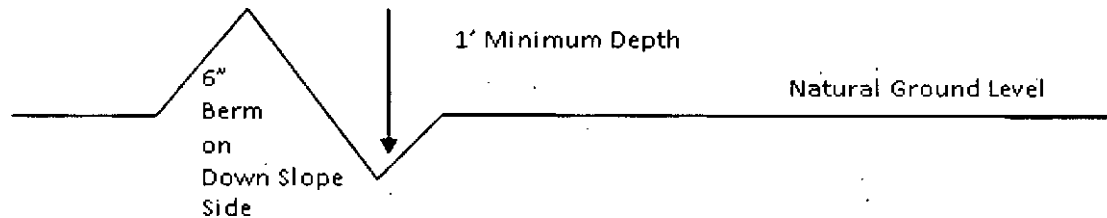
**Drainage**



Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill out sloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

#### **Cross Section of a Typical Lead-off Ditch**



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

#### **Formula for Spacing Interval of Lead-off Ditches**

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

#### **Cattleguards**

An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguards that are in place and are utilized during lease operations.

#### **Fence Requirement**

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

#### **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

## Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

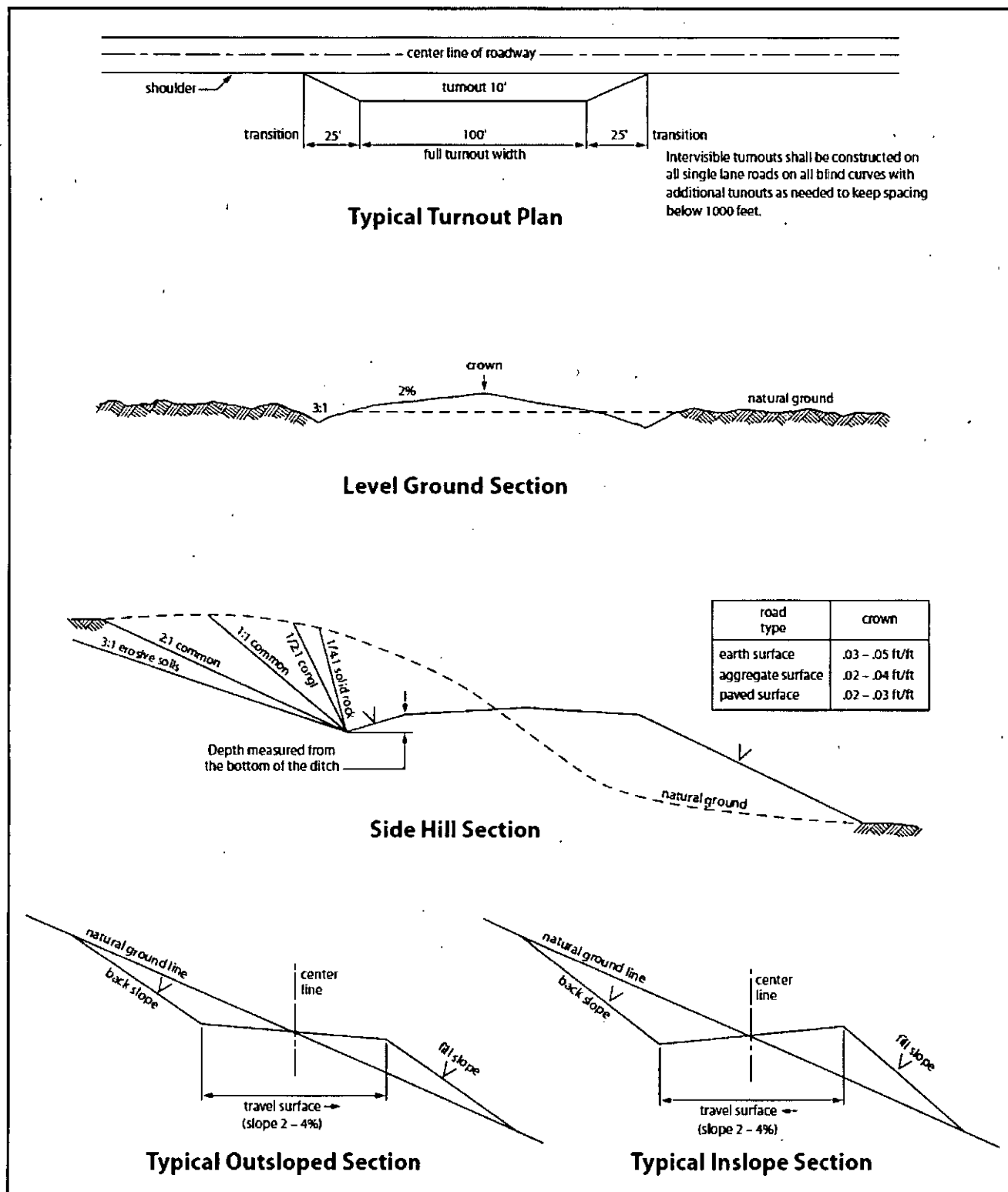


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

## VII. DRILLING

### A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

- 1. A Hydrogen Sulfide (H<sub>2</sub>S) Drilling Plan shall be activated 500 feet prior to drilling into the **Grayburg** formation. **As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.**
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
- 3. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

### B. CASING

**Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.**

**Centralizers required on surface casing per Onshore Order 2.III.B.1.f.**

**Wait on cement (WOC) for Water Basin:**

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

**No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.**

**Possibility for water flows in the Artesia Group and Salado.**

**Possibility of lost circulation in the Red Beds, Rustler, Artesia Group, and San Andres.**

1. The 13-3/8 inch surface casing shall be set at approximately 790 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
  - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
  - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.**

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.

**A double isolation packer is required a few feet inside the lease offset limit.**

3. The minimum required fill of cement behind the 7 X 5-1/2 inch production casing is:

**Operator has proposed DV tool at depth of 5500'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.**

- a. First stage to DV tool:

☒ No cement required. A packer/port system will be utilized.

- b. Second stage above DV tool:

☒ Cement to surface. If cement does not circulate see B.1.a, c-d above.

**Additional cement may be required – excess calculates to -4%.**

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

### **C. PRESSURE CONTROL**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi. In the case where the only BOP installed is an annular preventer, it shall be tested to a minimum of 2000 psi (which may require upgrading to 3M or 5M annular).**
3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- a. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- b. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

#### **D. DRILL STEM TEST**

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

#### **E. WASTE MATERIAL AND FLUIDS**

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

**TMAK100215**

#### **F. WASTE MATERIAL AND FLUIDS**

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

## **VIII. PRODUCTION (POST DRILLING)**

### **A. WELL STRUCTURES & FACILITIES**

#### **Placement of Production Facilities**

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

#### **Exclosure Netting (Open-top Tanks)**

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

#### **Chemical and Fuel Secondary Containment and Exclosure Screening**

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

#### **Open-Vent Exhaust Stack Exclosures**

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

#### **Containment Structures**

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

#### **Painting Requirement**

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

### **A. PIPELINES**

#### **STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES**

**A copy of the application (Grant, Sundry Notice, APD) and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.**

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third



parties.

4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:

- a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
- b. Activities of other parties including, but not limited to:
  - (1) Land clearing.
  - (2) Earth-disturbing and earth-moving work.
  - (3) Blasting.
  - (4) Vandalism and sabotage.
- c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.

6. All construction and maintenance activity will be confined to the authorized right-of-way width of 20 feet. If the pipeline route follows an existing road or buried pipeline right-of-way, the surface pipeline must be installed no farther than 10 feet from the edge of the road or buried pipeline right-of-way. If existing surface pipelines prevent this distance, the proposed surface pipeline must be installed immediately adjacent to the outer surface pipeline. All construction and maintenance activity will be confined to existing roads or right-of-ways.

7. No blading or clearing of any vegetation will be allowed unless approved in writing

by the Authorized Officer.

8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky or dune areas, the pipeline will be "snaked" around hummocks and dunes rather than suspended across these features.

9. The pipeline shall be buried with a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.

10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.

12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.

13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.

14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.

15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the

authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.

16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

18. Special Stipulations:

- a. **Lesser Prairie-Chicken:** Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted.

## **B. ELECTRIC LINES**

### **STIPULATIONS FOR BURIED ELECTRIC DISTRIBUTION LINES**

The holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this authorization.
2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the Holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the powerline route or on facilities authorized. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The Holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way Holder's activity on the pipeline). This agreement applies without regard to whether a release is caused by the Holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of the Holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the Holder. Such action by the Authorized Officer shall not relieve the Holder of any liability or responsibility.

5. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the Holder, or any person working on the Holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The Holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

6. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

7. The holder shall be held responsible if noxious weeds become established within the area. Evaluation of growth of the noxious weeds shall be made upon discovery. Weed control will be required on the disturbed lands resulting from this actions, which include the roads, pads and associated pipelines and on adjacent lands affected by the establishment of weeds due to this action.

The holder shall insure that the equipment and or vehicles that will be used to construct, maintain and administer the access roads, well pad, and resulting well are not polluted with invasive and noxious weed seeds. Transporting of invasive and noxious weed seeds could occur if the equipment and vehicles were previously used in noxious weed infested areas. In order to prevent the spread of noxious weeds, the Authorized Officer shall require that the equipment and vehicles be cleaned with either high pressure water or air prior to construction, maintenance and administration of the access roads, well pad, and resulting well.

The holder is responsible for consultation with the authorized officer and/or local authorities for acceptable weed control methods, which include following EPA and BLM requirements and policy.

8. The holder shall be responsible for maintaining the site in a sanitary condition at all times; waste materials shall be disposed of promptly at an appropriate waste disposal site. "Waste" means all discarded matter including, but not limited to human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and equipment.

9. The holder shall conduct all activities associated with the construction, operation and termination of the powerline within the authorized limits.

10. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.

11. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair impacted improvements to at least their former state. The holder shall contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence will be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.

12. Construction trenches left open overnight shall be covered. Covers shall be secured in place and shall be strong enough to prevent livestock or wildlife from falling through and into a hole.

13. The holder shall evenly spread the excess soil excavated from trench in the immediate vicinity of the trench structure.

14. The BLM serial number assigned to this right-of-way grant shall be posted in a permanent, conspicuous manner, and be maintained in a legible condition for the term of the right-of-way at all major road crossings and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.

15. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.

16. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facilities or within 180 days of abandonment, relinquishment, or termination of this grant, whichever comes first. This will not apply where the power line extends to serve an active, adjoining facility or facilities.

17. Escape Ramps - The operator will construct and maintain pipeline/utility trenches that are not otherwise fenced, screened, or netted to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:

- a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.

- b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.

## **IX. INTERIM RECLAMATION**

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

## **X. FINAL ABANDONMENT & RECLAMATION**

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

### Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase.

Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

<u>Species</u>	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

\*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed