

ATS-16-1019

Form 3160-3
(March 2012)

NM OIL CONSERVATION

ARTESIA DISTRICT

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SEP 13 2016

APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

5. 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 LJ 7H

316802

9. API Well No.

30-015-43907

1a. Type of work: DRILL REENTER

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

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

3080

3a. Address 801 Cherry Street, Suite 1500
Fort Worth, Texas 76102

3b. Phone No. (include area code)
817-583-8730

10. Field and Pool, or Exploratory
Fren Glorieta Yeso

26770

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

At surface 2080' FSL & 152' FWL, Unit L, Sec. 12

At proposed prod. zone 1651' FSL & 1651' FEL, Unit J, Sec. 12

11. Sec., T. R. M. or Blk. and Survey or Area
Section 12, T. 17S, R. 31E

14. Distance in miles and direction from nearest town or post office*
Approximately 3.3 Miles West of Maljamar, NM

12. County or Parish
Eddy

13. State
NM

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 152'

16. No. of acres in lease 1920

17. Spacing Unit dedicated to this well 120

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 463'

19. Proposed Depth 5470.0' TVD 9006.1' MD

20. BLM/BIA Bond No. on file NM-B000197 & NM-B000699

21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3961' GL

22. Approximate date work will start* 06/01/2016

23. 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:

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

25. Signature *Leslie Garvis*

Name (Printed/Typed) Leslie M. Garvis

Date 04/22/2016

Title Regulatory Coordinator

Approved by (Signature) /s/Cody Layton

Name (Printed/Typed)

SEP 8 - 2016

Title FIELD MANAGER

Office 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)

Roswell Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-8161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 746-1253 Fax: (575) 746-9720

DISTRICT III
1000 Rio Brazos Rd., Artec, NM 87410
Phone (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-5600 Fax: (505) 476-5662

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

SEP 13 2016

RECEIVED

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43907	Pool Code 26770	Pool Name FREN GLORIETA YESO
Property Code 38562-316802	Property Name NOSLER 12 FED LJ	
Well Number 7H	Operator Name BURNETT OIL CO, INC.	
OGRID No. 03080	Elevation 3961	

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	FEET from the	SOUTH/NORTH LINE	FEET from the	East/WEST LINE	County
L	12	17 S	31 E		2080	SOUTH	152	WEST	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/WEST LINE	County
J	12	17 S	31 E		1651	SOUTH	1651	EAST	EDDY

Dedicated Acres 120	Joint or Infill	Consolidation Code	Order No.
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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

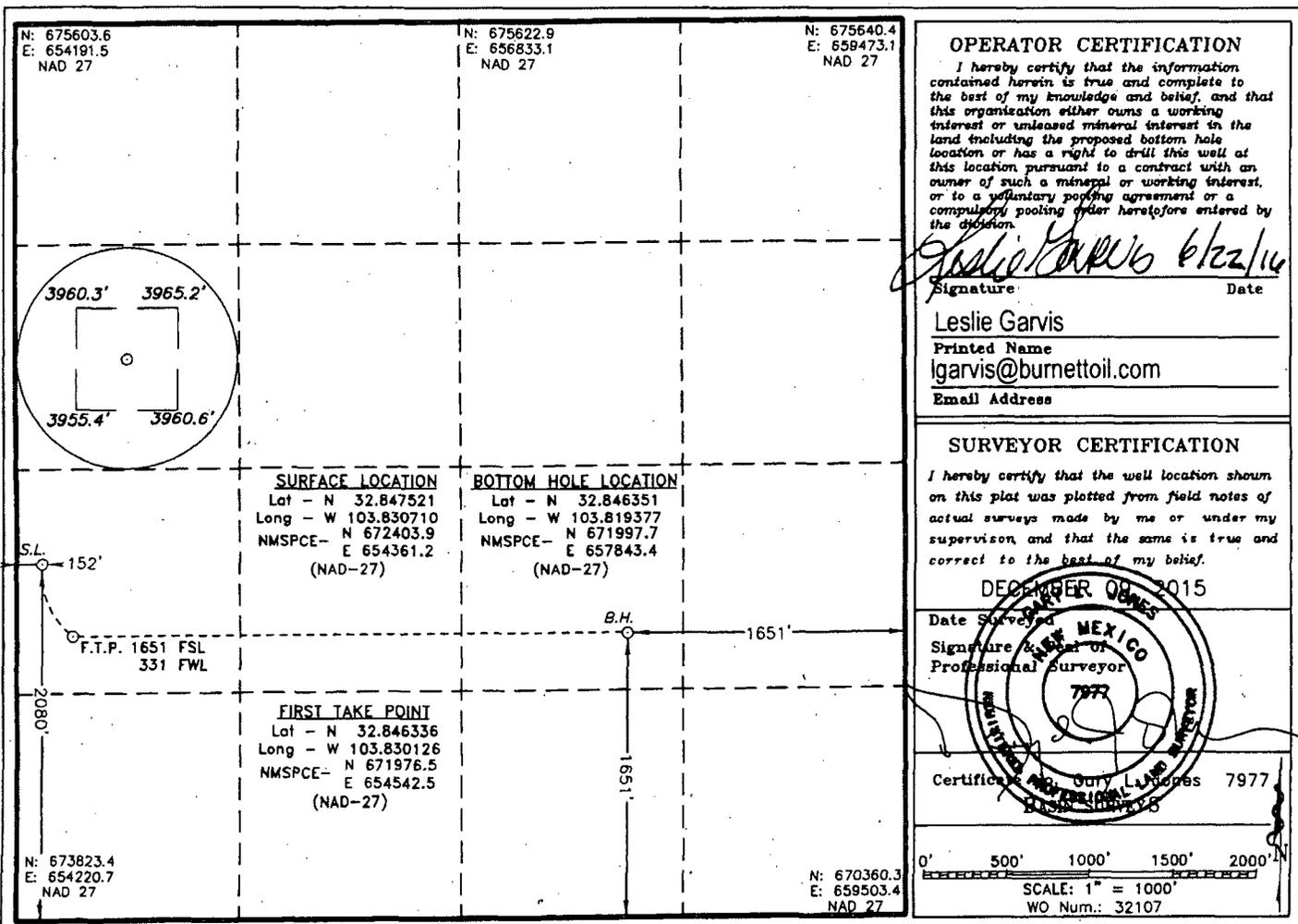
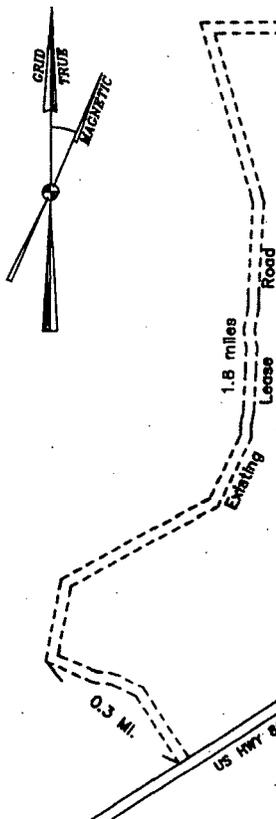
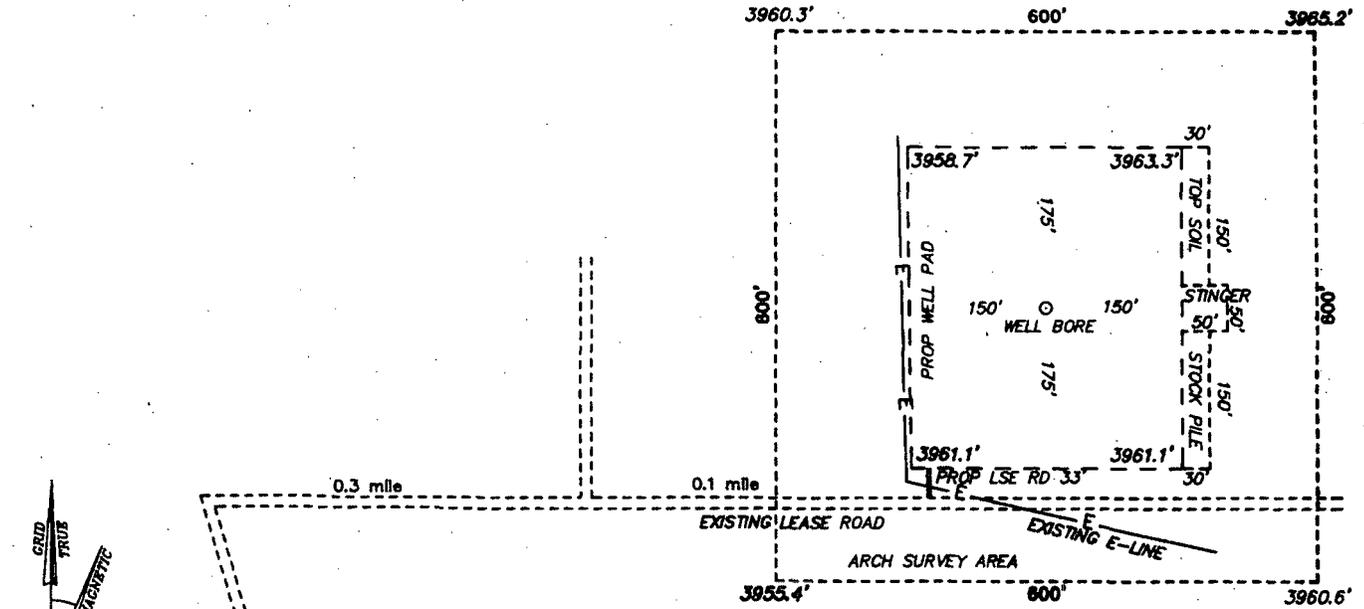


EXHIBIT A

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

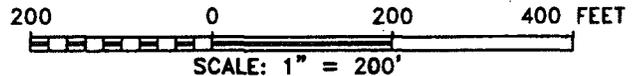


Directions to Location:

ON STATE 82 AT 0.6 MILES WEST OF MILE MARKER 141, TAKE LEASE ROAD NORTH 0.3 MILES, THEN NORTH 1.8 MILES ON MAIN LEASE ROAD, THEN EAST 0.3 MILES, CONTINUING EAST 0.1 MILES TO PROPOSED LOCATION DUE EAST.

BURNETT OIL CO
NOSLER 12 FED LJ 7H
ELEV. - 3981'
Lat - N 32.847521
Long - W 103.830710
NMSPC- N 672403.9
E 654361.2
(NAD-27)

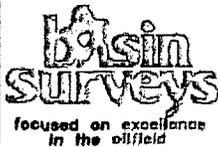
MALJAMAR, NM IS ±3 MILES TO THE NORTHEAST OF LOCATION.



REF: NOSLER 12 FED LJ 7H / WELL PAD TOPO

THE NOSLER 12 FED LJ 7H LOCATED 2080' FROM THE SOUTH LINE AND 152' FROM THE WEST LINE OF SECTION 12, TOWNSHIP 17 SOUTH, RANGE 31 EAST.

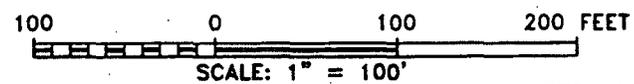
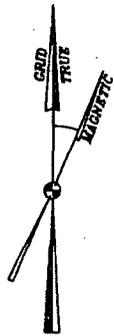
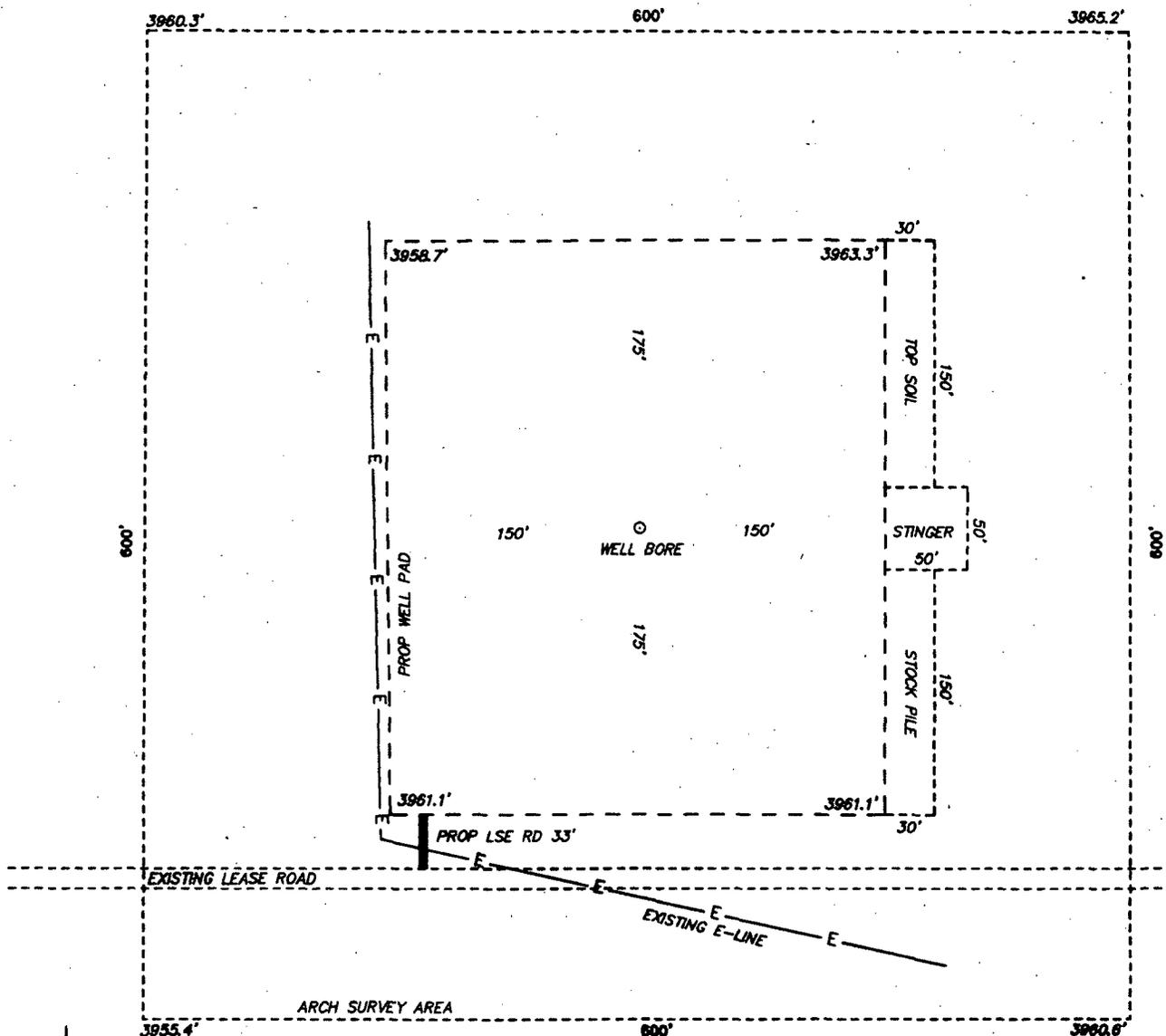
N.M.P.M., EDDY COUNTY, NEW MEXICO.



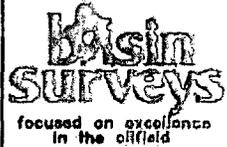
P.O. Box 1786 (575) 393-7316 - Office
1120 N. West County Rd. (575) 392-2208 - Fax
Hobbs, New Mexico 88241 basin-surveys.com

EXHIBIT B

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

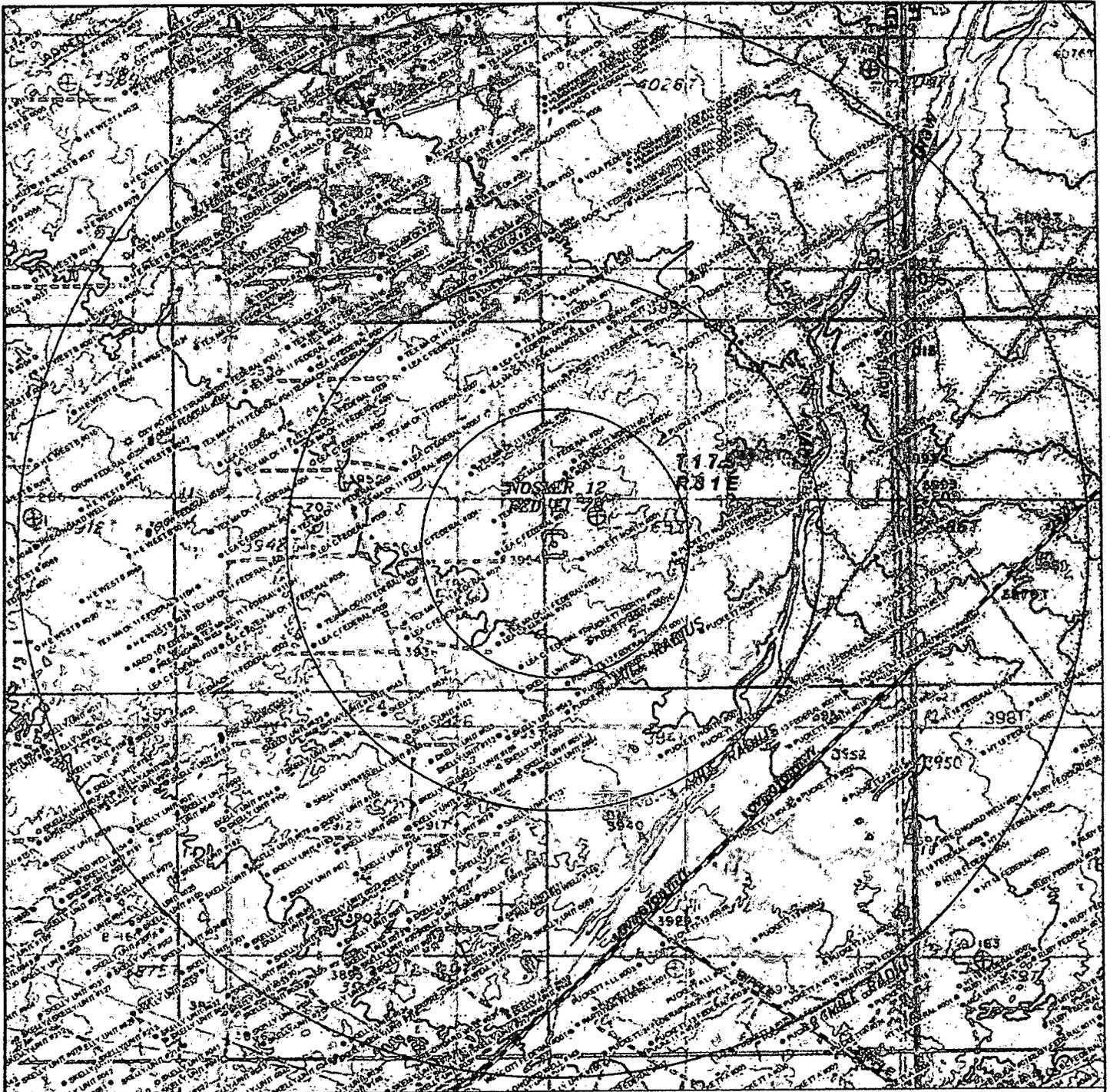


REF: NOSLER 12 FED LJ 7H / WELL PAD TOPO
 THE NOSLER 12 FED LJ 7H LOCATED 2080' FROM
 THE SOUTH LINE AND 152' FROM THE WEST LINE OF
 SECTION 12, TOWNSHIP 17 SOUTH, RANGE 31 EAST.
 N.M.P.M., EDDY COUNTY, NEW MEXICO.

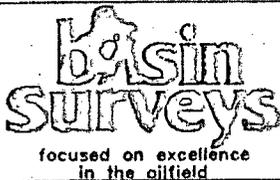


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EXHIBIT C



NOSLER 12 FED LJ 7H
 Located 2080' FSL and 152' FWL
 Section 12, 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" = 3000'

W.O. Number: KAN 32107

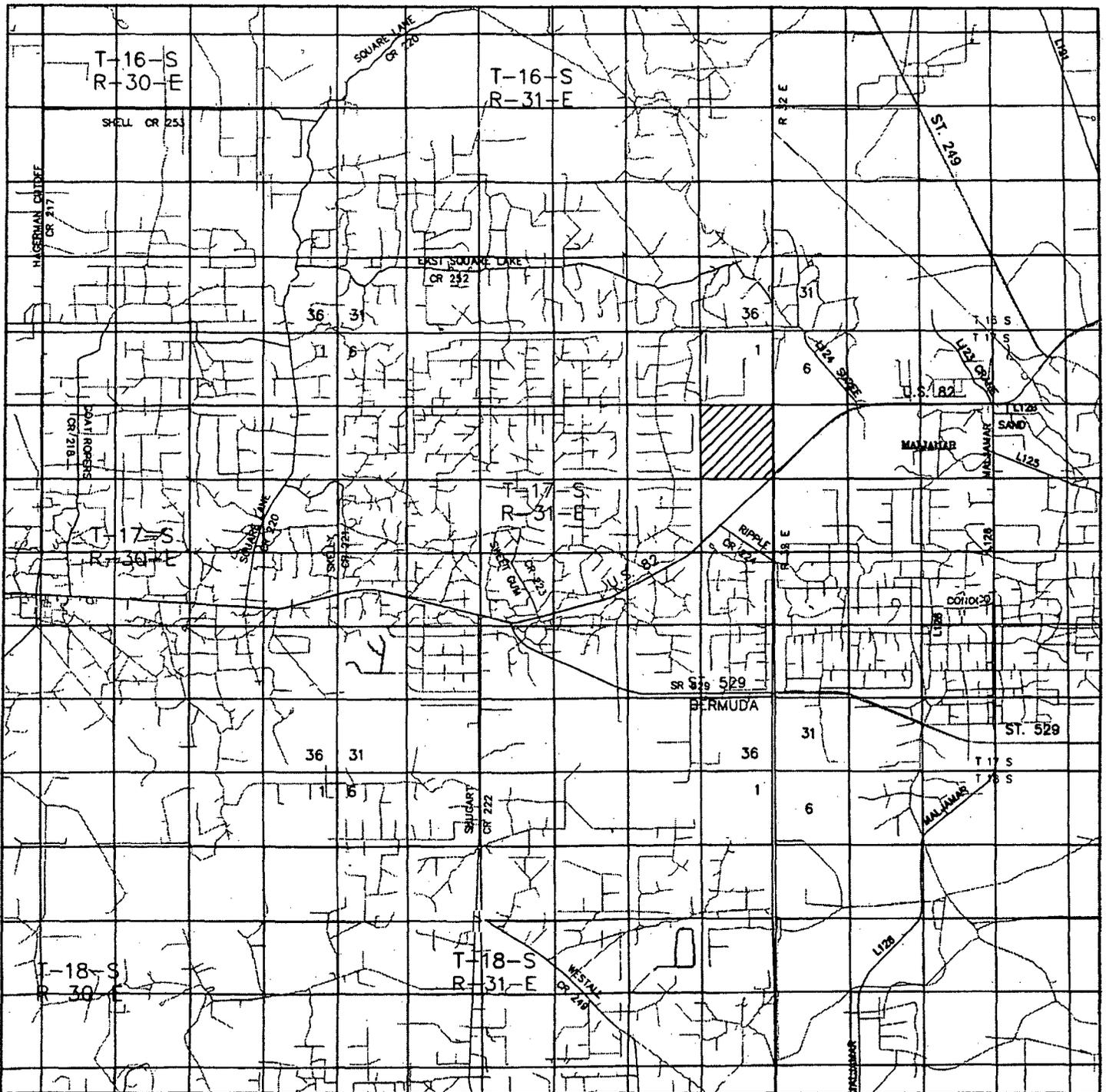
Survey Date: 12-09-2015

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

Burnett Oil Co., Inc.

6666

EXHIBIT D



NOSLER 12 FED LJ 7H
 Located 2080' FSL and 152' FWL
 Section 12, Township 17 South, Range 31 East,
 N.M.P.M., Eddy County, New Mexico.

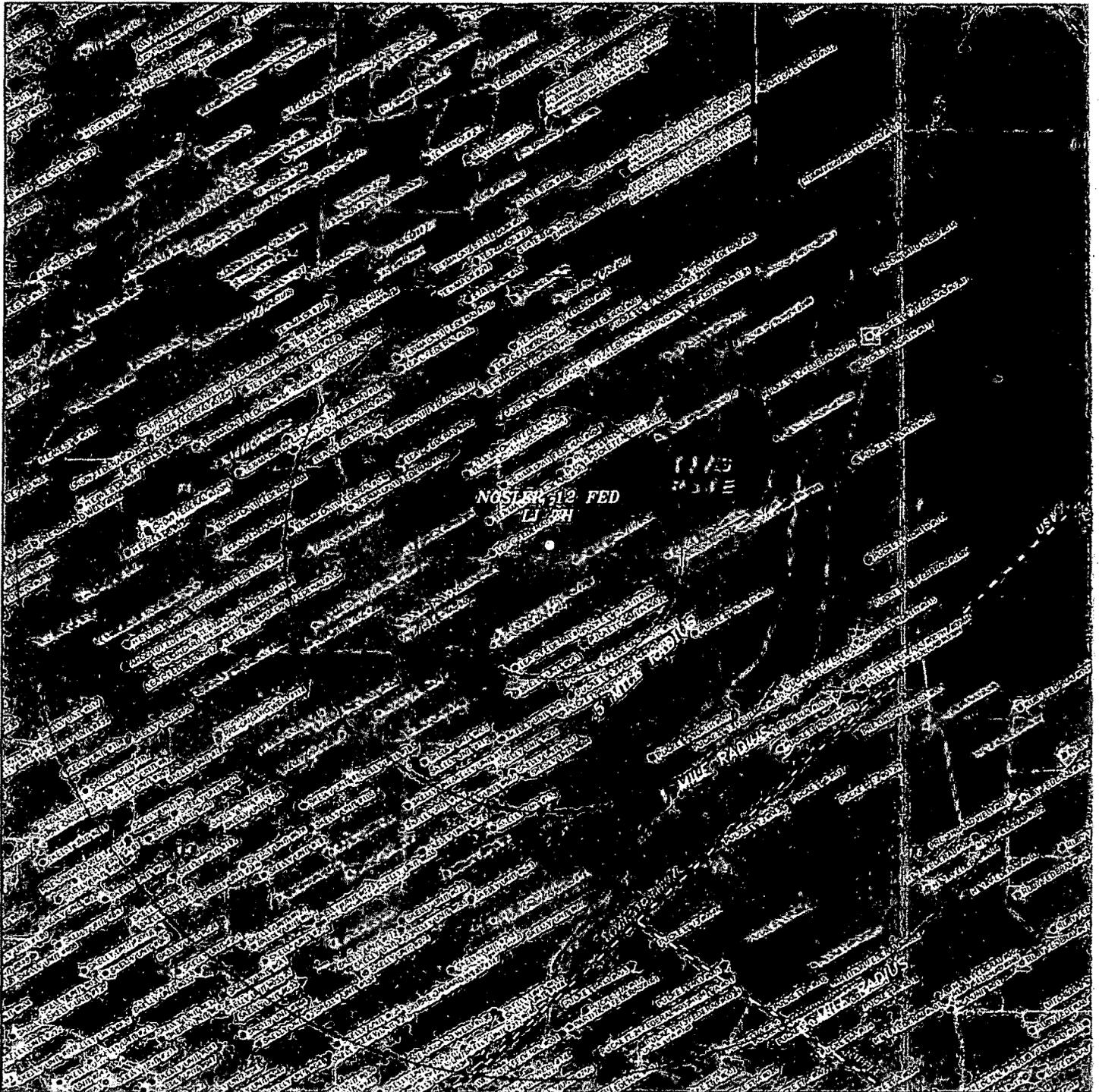

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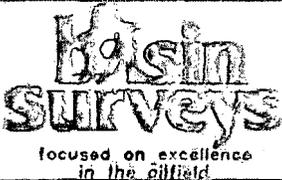
0 1 MI 2 MI 3 MI 4 MI
 SCALE: 1" = 2 MILES
 W.O. Number: KAN 32107
 Survey Date: 12-09-2015
 YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND

Burnett Oil Co., Inc.
6666

EXHIBIT E



NOSLER 12 FED LJ 7H
 Located 2080' FSL and 152' FWL
 Section 12, Township 17 South, Range 31 East,
 N.M.P.M., Eddy County, New Mexico.



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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 3000'

W.O. Number: KAN 32107

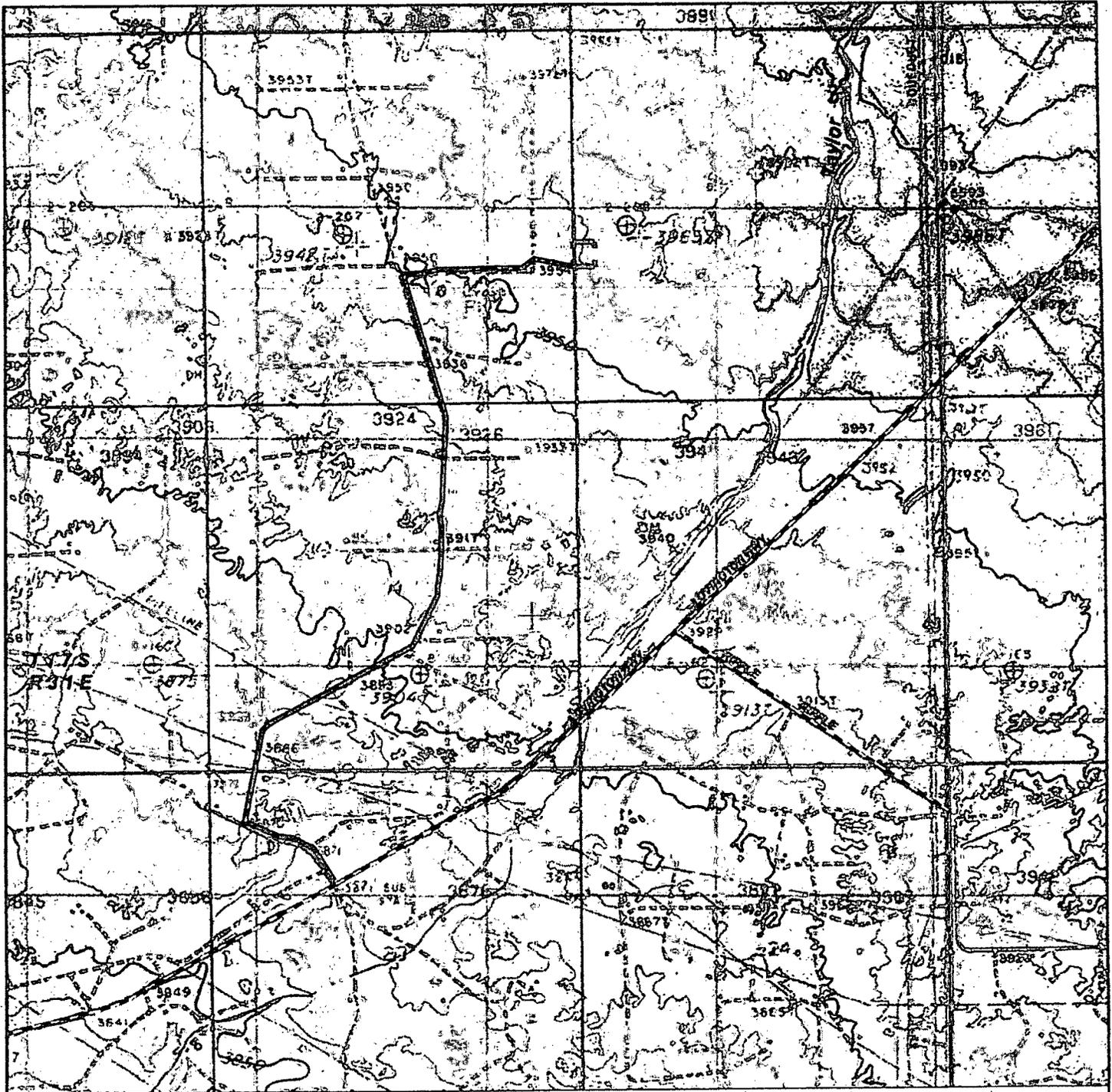
Survey Date: 12-09-2015

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

Burnett Oil Co., Inc.

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EXHIBIT F



NOSLER 12 FED LJ 7H ROAD
 Located 2080' FSL and 152' FWL
 Section 12, Township 17 South, Range 31 East,
 N.M.P.M., Eddy County, New Mexico.

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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 3000'

W.O. Number: KAN 32107

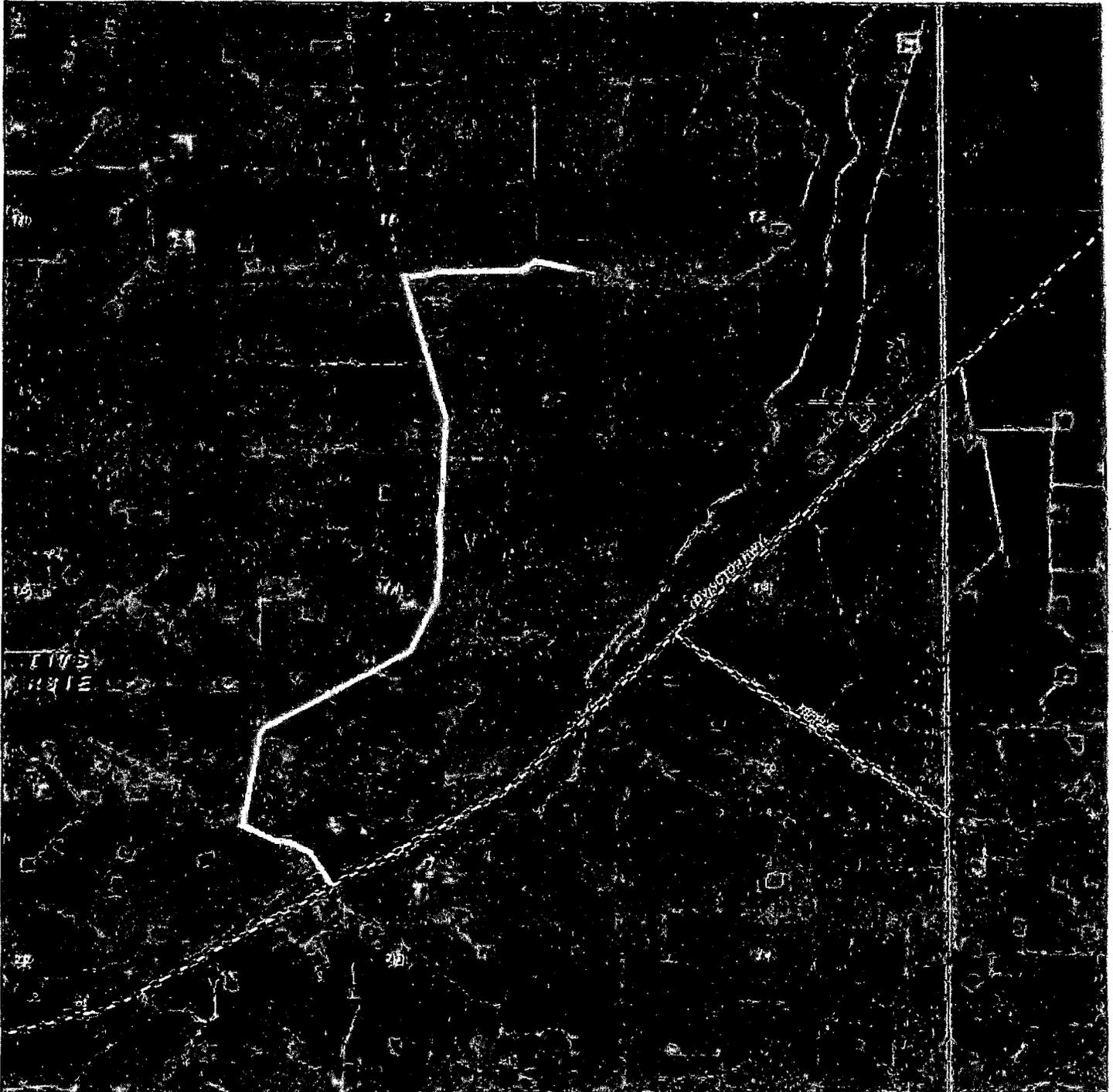
Survey Date: 12-09-2015

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

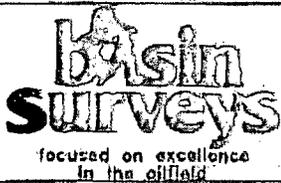
Burnett Oil Co., Inc.

6666

EXHIBIT G



NOSLER 12 FED LJ 7H ROAD
Located 2080' FSL and 152' FWL
Section 12, Township 17 South, Range 31 East,
N.M.P.M., Eddy County, New Mexico.



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0' 1000' 2000' 3000' 4000'

SCALE: 1" = 3000'

W.O. Number: KAN 32107

Survey Date: 12-09-2015

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

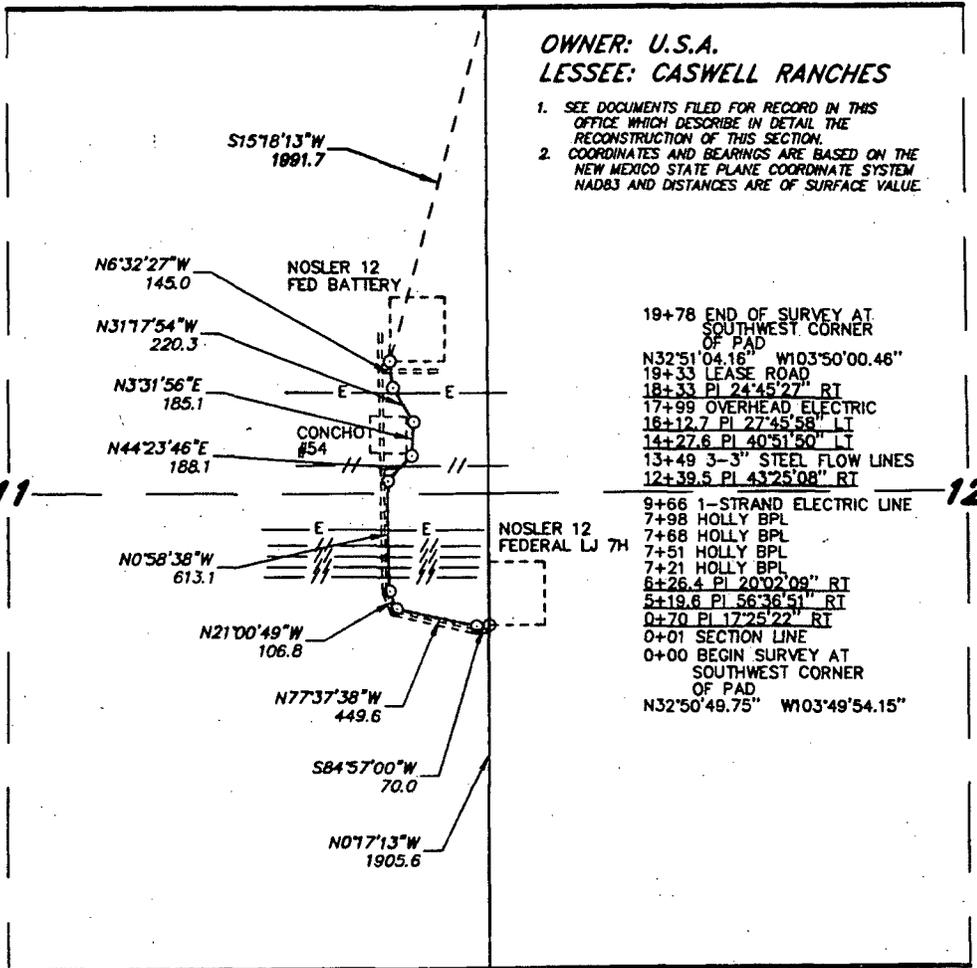


Burnett Oil Co., Inc.

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EXHIBIT H

SECTIONS 11&12, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO.

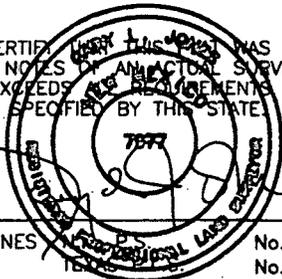


LEGAL DESCRIPTION

A STRIP OF LAND 30.0 FEET WIDE, LOCATED IN SECTIONS 11&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 11 = 1977.0 FEET = 119.82 RODS = 0.37 MILES = 1.36 ACRES
SECTION 12 = 1.0 FEET = 0.06 RODS = 0.00 MILES = 0.00 ACRES
TOTAL = 1978.0 FEET = 119.88 RODS = 0.37 MILES = 1.36 ACRES

I HEREBY CERTIFY THAT THIS MAP 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
TEXAS FIRM
No. 7977
No. 5074
No. 10119700

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Hobbs, New Mexico 88241 basin-surveys.com

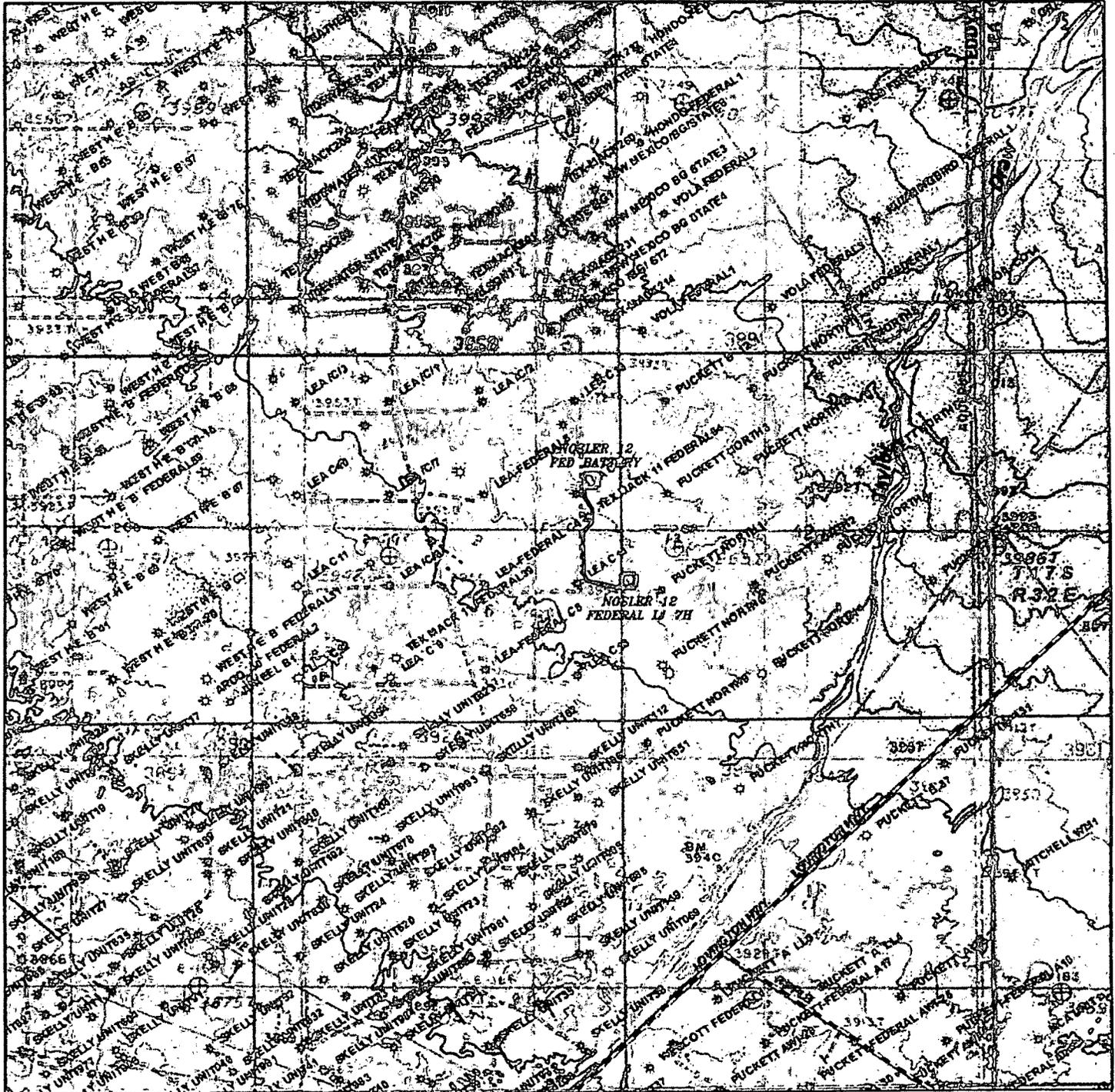
1000 0 1000 2000 FEET

Burnett Oil Co., Inc. 6666

REF: PROPOSED NOSLER FLOW LINE

A PIPELINE CROSSING USA LAND IN
SECTIONS 11&12, TOWNSHIP 17 SOUTH, RANGE 31 EAST,
N.M.P.M., EDDY COUNTY, NEW MEXICO.

EXHIBIT I



PROPOSED NOSLER FLOW LINE
 Sections 11&12, Township 17 South, Range 31 East,
 N.M.P.M., Eddy County, New Mexico.

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0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'

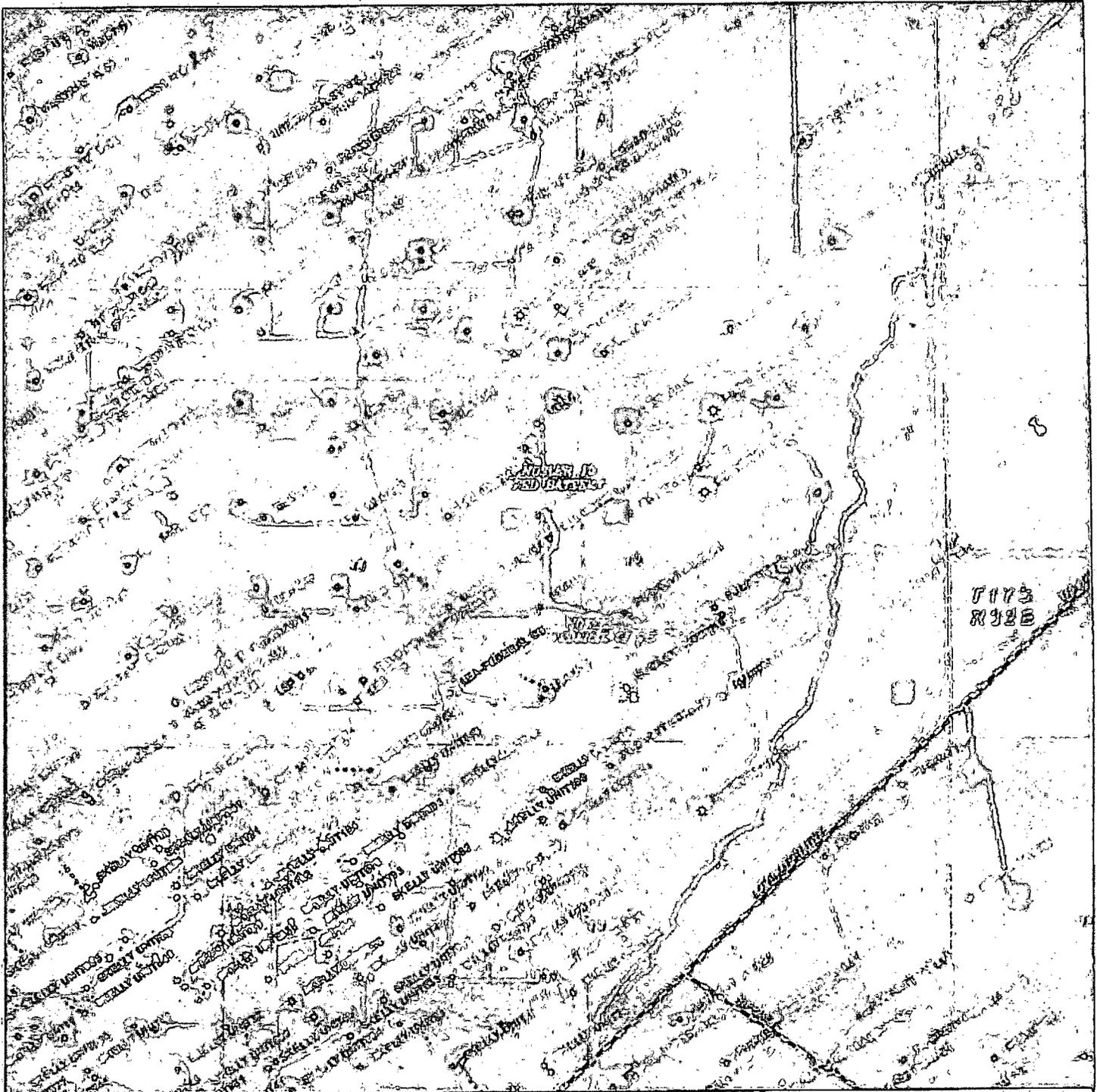
W.O. Number: JG 32241

Survey Date: 4-5-2016

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

Burnett Oil Co., Inc.
 6666

EXHIBIT J



PROPOSED NOSLER FLOW LINE
 Sections 11&12, Township 17 South, Range 31 East,
 N.M.P.M., Eddy County, New Mexico.

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 basinsurveys.com

0' 1000' 2000' 3000' 4000'

SCALE: 1" = 2000'

W.O. Number: JG 32241

Survey Date: 4-5-2016

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

Burnett Oil Co., Inc.
 6666

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BURNETT OIL CO., INC.

DRILLING PLAN Nosler 12 Fed LJ 7H HORIZONTAL FREN GLORIETA YESO WELL

1. Geological Name of Surface Formation with Estimated Depth:

<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 @ approx. 750' in the Anhydrite above the salt and circulate cement to surface.

We will set 9-5/8" intermediate casing at around 2,300' 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 +/-5,400' to above the base of the 9-5/8" intermediate casing shoe.

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

(MW = 10 PPG IN DESIGN FACTOR CALCULATIONS.)

a. Design Safety Factors:

Type	Hole Size	Depth Interval	OD CSG	Weight	Collar	Grade	Collapse Design Factor	Burst Design Factor	Tension Design Factor
Conductor	24"	0-90'	20"	Contractor	Discretion	-----	-----	-----	-----
Surface	17-1/2"	0-750'	13-3/8"	48#	ST&C	H-40	1.125	1.00	1.80
Intermediate	12-1/4"	0- 2300 2350'	9-5/8"	36#	LT&C	J-55	1.125	1.00	1.80
Production	8-3/4"	0-5400'	7"	26#	LT&C	L-80	1.125	1.00	1.80
	7-7/8"	5400-10450'	5-1/2"	17#	LT&C	L-80	1.125	1.00	1.80

See COA

DRILLING PLAN

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 13-3/8" casing setting depth is +/- 750' 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 2,300' 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 DV Tool at the bottom of the 7" (5400' +/-), then a crossover from 7" to 5-1/2" (5400' -TD). There will be no cement in the lateral, only from the stage tool and up hole into the intermediate casing with top of cement reaching approximately 1,500'.

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

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: 330 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: 340 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

DRILLING PLAN

Horizontal Fren Glorieta Yeso Well

survey results will be reviewed with BLM representative to determine the remediation needed.

b. 9 5/8" Intermediate Casing:

- Cement to surface
- Lead: 475 sx ExtendaCem – CZ 0.1250 lbm Poly-E-Flake, Fluid weight 13.5 lbm/gal, slurry yield 1.745 ft³/sx, total mixing fluid 9.2 gal/sx.
- Tail: 205 sx HalCem fluid weight 14.8 lbm/gal, slurry yield 1.326 ft³/sx, total mixing fluid 6.34 gal/sx.
- **Excess cement approx. 50%**

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

- Displace mud from lateral with fresh water.
- Open DV Tool and pump the following cement. Lead: 255 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 ft³/sx, total mixing fluid 14.24 gal/sx.
- Tail: 170 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 ft³/sx, total mixing fluid 6.29 gal/sx
- **Excess cement approx. 35%**

The above cement volumes may be revised pending the caliper measurement from the open hole logs. **Casing/cementing design is to bring cement inside the intermediate casing to approximately 1,500'.**

4. Pressure Control Equipment:

The blowout prevention equipment (BOPE) shown in Exhibit I 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.

DRILLING PLAN
Horizontal Fren Glorieta Yeso Well

- d. An H2S compliance package will be on all sites while drilling.

6. Proposed Mud Circulation System (Closed Loop System)

*See
COA*

<u>Depth</u>	<u>Mud Wt</u>	<u>Vis</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 750'	8.4 - 9.5		NC	Fresh Water
750' - ^{2350'} 2300' MD	10.0 max		NC	Brine Water
^{2350'} 2300' - 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. Anti-Collision Report

The Hudson Oil Company of Texas Knockabout Fed 1 well is a Yeso well and will be +/-190' north of the 7H lateral in the middle of Unit K.

There are a total of only three (3) other wells in the three units and each is shallower than 4,000'.

9. 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 2386#. 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 H2S in this area. In the event that it is necessary to follow the H2S plan, a remote choke will be installed as required in Onshore Order 6. Refer to the attached H2S plan for details.

DRILLING PLAN
Horizontal Fren Glorieta Yeso Well

10. Anticipated Start Date and Duration of Operation

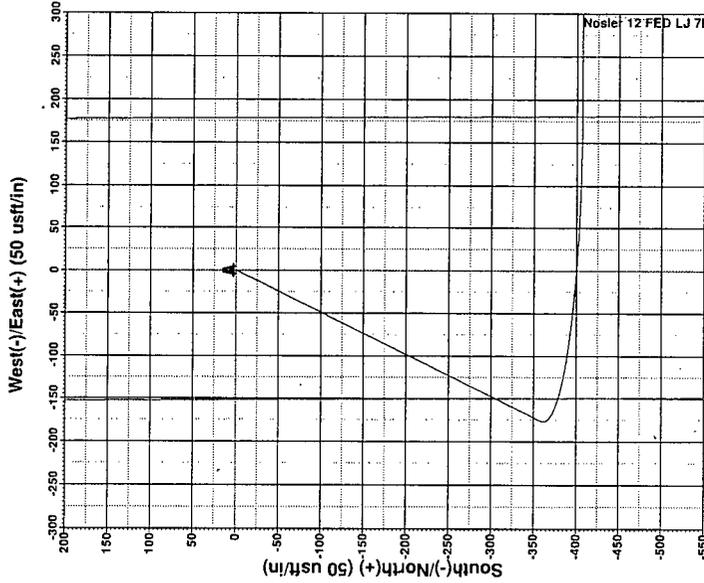
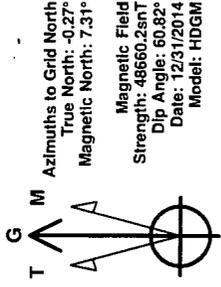
Road and location construction will begin after BLM has approved the APD and has approved the start of the location work. Anticipated spud date will be as soon as the location building work has been completed and the drilling rig is available to move to the location. Move in operations and drilling is 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.



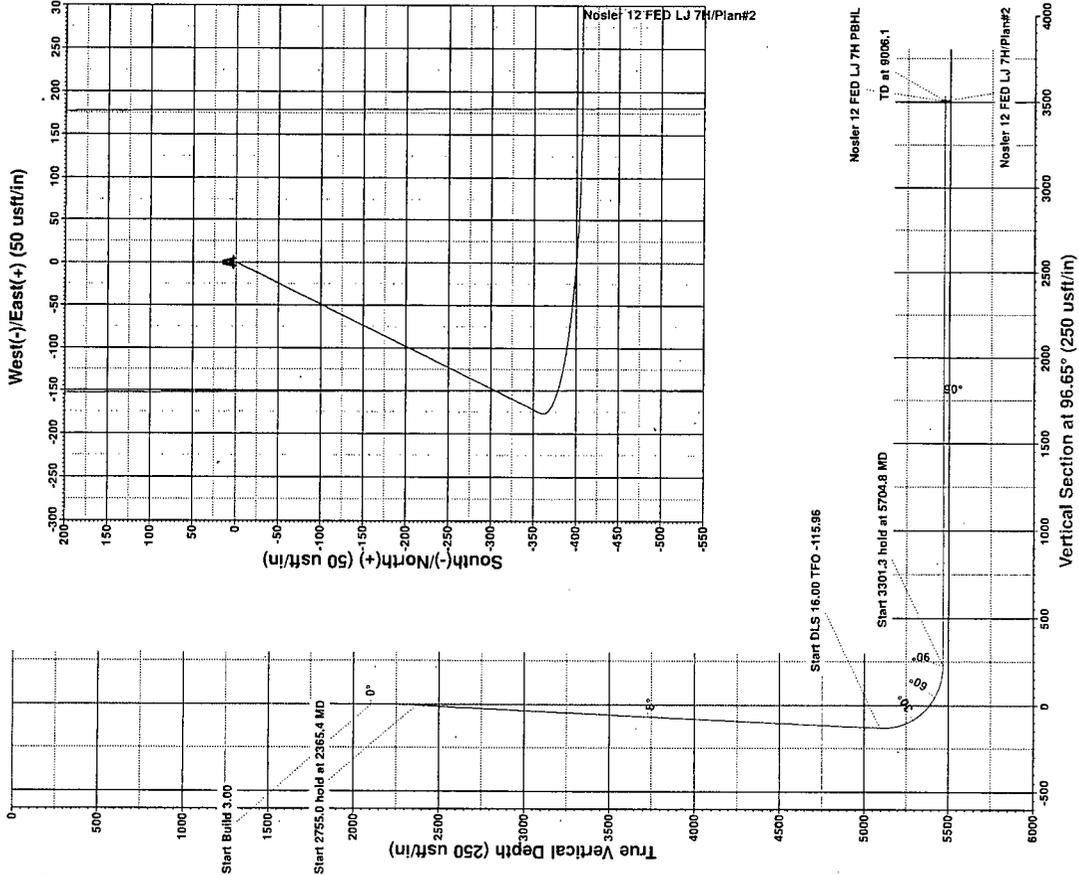
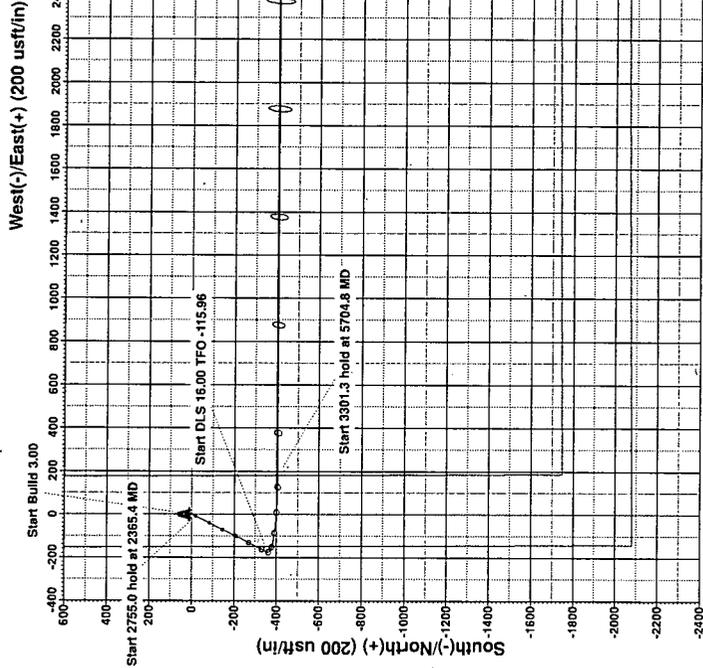
Burnett Oil Company, Inc
 Project: Eddy County, NM
 Site: Sec.12, T.17 S., R. 31 E.
 Well: Nosler 12 FED LJ 7H
 Wellbore: Wellbore #1
 Plan: Plan#2 (Nosler 12 FED LJ 7H/Wellbore #1)

WELL DETAILS: Nosler 12 FED LJ 7H
 Ground Elevation: 3961.0
 RKB Elevation: KB=18' @ 3979.0usft
 Rig Name:

Northing 672403.90 Easting 654361.20
 Latitude 32° 50' 51.049 N Longitude 103° 49' 50.556 W



Sec	MD	Inc	Azi	TVD	+N/-S	+E-/W	Dieg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	0.0
2	2100.0	0.00	0.00	2100.0	0.0	0.0	0.00	0.00	0.0	0.0
3	2365.4	7.96	206.18	2364.6	-16.5	-8.1	3.00	206.18	-6.2	-133.7
4	5120.4	7.96	206.18	5093.0	-359.0	-176.5	0.00	0.00	0.00	0.00
5	5704.8	90.00	90.00	5470.0	-406.3	180.9	16.00	-115.96	226.8	Nosler 12 FED LJ 7H PBHL
6	9006.1	90.00	90.00	5470.0	-406.2	3482.2	0.00	0.00	3505.8	Nosler 12 FED LJ 7H PBHL



PROJECT DETAILS: Eddy County, NM
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Local North: Grid



NM OIL CONSERVATION

ARTESIA DISTRICT

SEP 13 2016

RECEIVED

Burnett Oil Company, INC

Eddy County, NM

Sec.12, T.17 S., R. 31 E.

Nosler 12 FED LJ 7H

Wellbore #1

Plan: Plan#2

Standard Survey Report

31 March, 2016

Integrity Directional Services, LLC

Survey Report

Company:	Burnett Oil Company, INC	Local Co-ordinate Reference:	Well Nosler 12 FED LJ 7H
Project:	Eddy County, NM	TVD Reference:	KB=18' @ 3979.0usft
Site:	Sec.12, T.17.S., R.31.E.	MD Reference:	KB=18' @ 3979.0usft
Well:	Nosler 12 FED LJ 7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#2	Database:	EDM 5000.1 Multi User Db

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

Site Sec.12, T.17.S., R.31.E.		
Site Position:	Northing: 672,403.90 usft	Latitude: 32° 50' 51.049 N
From: Map	Easting: 654,361.20 usft	Longitude: 103° 49' 50.556 W
Position Uncertainty: 5.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.27 °

Well Nosler 12 FED LJ 7H			
Well Position +N-S	0.0 usft	Northing: 672,403.90 usft	Latitude: 32° 50' 51.049 N
+E-W	0.0 usft	Easting: 654,361.20 usft	Longitude: 103° 49' 50.556 W
Position Uncertainty	5.0 usft	Wellhead Elevation: 0.0 usft	Ground Level: 3,961.0 usft

Wellbore Wellbore #1					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	HDGM	12/31/2014	(°) 7.58	(°) 60.82	(nT) 48,660

Design Plan#2				
Audit Notes:				
Version:	Phase: PLAN	Tie On Depth: 0.0		
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	96.65

Survey Tool Program		Date 3/31/2016
From	To	Survey (Wellbore)
(usft) 0.0	(usft) 9,006.1	Plan#2 (Wellbore #1)
		Tool Name MWD
		Description MWD - Standard

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	

Integrity Directional Services, LLC

Survey Report

Company: Burnett Oil Company, INC	Local Co-ordinate Reference: Well Nosler 12 FED LJ 7H
Project: Eddy County, NM	TVD Reference: KB=18' @ 3979.0usft
Site: Sec 12, T.17 S., R. 31 E.	MD Reference: KB=18' @ 3979.0usft
Well: Nosler 12 FED LJ 7H	North Reference: Gnd
Wellbore: Wellbore #1	Survey Calculation Method: Minimum Curvature
Design: Plan#2	Database: EDM 5000.1 Multi User.Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 3.00									
2,200.0	3.00	206.18	2,200.0	-2.3	-1.2	-0.9	3.00	3.00	0.00
2,300.0	6.00	206.18	2,299.6	-9.4	-4.6	-3.5	3.00	3.00	0.00
2,365.4	7.96	206.18	2,364.6	-16.5	-8.1	-6.2	3.00	3.00	0.00
Start 2755.0 hold at 2365.4 MD									
2,400.0	7.96	206.18	2,398.8	-20.8	-10.2	-7.8	0.00	0.00	0.00
2,500.0	7.96	206.18	2,497.8	-33.3	-16.3	-12.4	0.00	0.00	0.00
2,600.0	7.96	206.18	2,596.9	-45.7	-22.5	-17.0	0.00	0.00	0.00
2,700.0	7.96	206.18	2,695.9	-58.1	-28.6	-21.6	0.00	0.00	0.00
2,800.0	7.96	206.18	2,795.0	-70.5	-34.7	-26.3	0.00	0.00	0.00
2,900.0	7.96	206.18	2,894.0	-83.0	-40.8	-30.9	0.00	0.00	0.00
3,000.0	7.96	206.18	2,993.0	-95.4	-46.9	-35.5	0.00	0.00	0.00
3,100.0	7.96	206.18	3,092.1	-107.8	-53.0	-40.2	0.00	0.00	0.00
3,200.0	7.96	206.18	3,191.1	-120.3	-59.1	-44.8	0.00	0.00	0.00
3,300.0	7.96	206.18	3,290.1	-132.7	-65.2	-49.4	0.00	0.00	0.00
3,400.0	7.96	206.18	3,389.2	-145.1	-71.4	-54.1	0.00	0.00	0.00
3,500.0	7.96	206.18	3,488.2	-157.6	-77.5	-58.7	0.00	0.00	0.00
3,600.0	7.96	206.18	3,587.2	-170.0	-83.6	-63.3	0.00	0.00	0.00
3,700.0	7.96	206.18	3,686.3	-182.4	-89.7	-68.0	0.00	0.00	0.00
3,800.0	7.96	206.18	3,785.3	-194.9	-95.8	-72.6	0.00	0.00	0.00
3,900.0	7.96	206.18	3,884.4	-207.3	-101.9	-77.2	0.00	0.00	0.00
4,000.0	7.96	206.18	3,983.4	-219.7	-108.0	-81.8	0.00	0.00	0.00
4,100.0	7.96	206.18	4,082.4	-232.2	-114.1	-86.5	0.00	0.00	0.00
4,200.0	7.96	206.18	4,181.5	-244.6	-120.2	-91.1	0.00	0.00	0.00
4,300.0	7.96	206.18	4,280.5	-257.0	-126.4	-95.7	0.00	0.00	0.00
4,400.0	7.96	206.18	4,379.5	-269.4	-132.5	-100.4	0.00	0.00	0.00
4,500.0	7.96	206.18	4,478.6	-281.9	-138.6	-105.0	0.00	0.00	0.00
4,600.0	7.96	206.18	4,577.6	-294.3	-144.7	-109.6	0.00	0.00	0.00
4,700.0	7.96	206.18	4,676.6	-306.7	-150.8	-114.3	0.00	0.00	0.00
4,800.0	7.96	206.18	4,775.7	-319.2	-156.9	-118.9	0.00	0.00	0.00
4,900.0	7.96	206.18	4,874.7	-331.6	-163.0	-123.5	0.00	0.00	0.00
5,000.0	7.96	206.18	4,973.7	-344.0	-169.1	-128.2	0.00	0.00	0.00

Integrity Directional Services, LLC

Survey Report

Company:	Burnett Oil Company, INC	Local Co-ordinate Reference:	Well Nosler 12 FED LJ 7H
Project:	Eddy County, NM	TVD Reference:	KB=18' @ 3979.0usft
Site:	Sec. 12, T. 17 S., R. 31 E.	MD Reference:	KB=18' @ 3979.0usft
Well:	Nosler 12 FED LJ 7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#2	Database:	EDM 5000.1 Multi User Db

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	7.96	206.18	5,072.8	-356.5	-175.3	-132.8	0.00	0.00	0.00
5,120.4	7.96	206.18	5,093.0	-359.0	-176.5	-133.7	0.00	0.00	0.00
Start DLS 16.00 TFO -115.96									
5,200.0	11.66	127.47	5,171.7	-368.9	-172.5	-128.6	16.00	4.64	-98.91
5,300.0	26.16	104.80	5,266.2	-380.7	-143.0	-97.9	16.00	14.50	-22.66
5,400.0	41.74	98.09	5,348.9	-391.1	-88.4	-42.5	16.00	15.58	-6.72
5,500.0	57.52	94.58	5,413.5	-399.2	-12.9	33.4	16.00	15.78	-3.50
5,600.0	73.36	92.15	5,454.9	-404.4	77.6	123.9	16.00	15.85	-2.43
5,700.0	89.24	90.09	5,470.0	-406.3	176.1	222.0	16.00	15.87	-2.05
5,704.8	90.00	90.00	5,470.0	-406.3	180.9	226.8	16.00	15.88	-1.99
Start 3301.3 hold at 5704.8 MD									
5,800.0	90.00	90.00	5,470.0	-406.3	276.1	321.3	0.00	0.00	0.00
5,900.0	90.00	90.00	5,470.0	-406.3	376.1	420.6	0.00	0.00	0.00
6,000.0	90.00	90.00	5,470.0	-406.3	476.1	520.0	0.00	0.00	0.00
6,100.0	90.00	90.00	5,470.0	-406.3	576.1	619.3	0.00	0.00	0.00
6,200.0	90.00	90.00	5,470.0	-406.3	676.1	718.6	0.00	0.00	0.00
6,300.0	90.00	90.00	5,470.0	-406.3	776.1	818.0	0.00	0.00	0.00
6,400.0	90.00	90.00	5,470.0	-406.3	876.1	917.3	0.00	0.00	0.00
6,500.0	90.00	90.00	5,470.0	-406.3	976.1	1,016.6	0.00	0.00	0.00
6,600.0	90.00	90.00	5,470.0	-406.3	1,076.1	1,115.9	0.00	0.00	0.00
6,700.0	90.00	90.00	5,470.0	-406.3	1,176.1	1,215.3	0.00	0.00	0.00
6,800.0	90.00	90.00	5,470.0	-406.3	1,276.1	1,314.6	0.00	0.00	0.00
6,900.0	90.00	90.00	5,470.0	-406.3	1,376.1	1,413.9	0.00	0.00	0.00
7,000.0	90.00	90.00	5,470.0	-406.3	1,476.1	1,513.2	0.00	0.00	0.00
7,100.0	90.00	90.00	5,470.0	-406.3	1,576.1	1,612.6	0.00	0.00	0.00
7,200.0	90.00	90.00	5,470.0	-406.3	1,676.1	1,711.9	0.00	0.00	0.00
7,300.0	90.00	90.00	5,470.0	-406.3	1,776.1	1,811.2	0.00	0.00	0.00
7,400.0	90.00	90.00	5,470.0	-406.3	1,876.1	1,910.5	0.00	0.00	0.00
7,500.0	90.00	90.00	5,470.0	-406.3	1,976.1	2,009.9	0.00	0.00	0.00
7,600.0	90.00	90.00	5,470.0	-406.2	2,076.1	2,109.2	0.00	0.00	0.00
7,700.0	90.00	90.00	5,470.0	-406.2	2,176.1	2,208.5	0.00	0.00	0.00
7,800.0	90.00	90.00	5,470.0	-406.2	2,276.1	2,307.9	0.00	0.00	0.00
7,900.0	90.00	90.00	5,470.0	-406.2	2,376.1	2,407.2	0.00	0.00	0.00
8,000.0	90.00	90.00	5,470.0	-406.2	2,476.1	2,506.5	0.00	0.00	0.00
8,100.0	90.00	90.00	5,470.0	-406.2	2,576.1	2,605.8	0.00	0.00	0.00
8,200.0	90.00	90.00	5,470.0	-406.2	2,676.1	2,705.2	0.00	0.00	0.00
8,300.0	90.00	90.00	5,470.0	-406.2	2,776.1	2,804.5	0.00	0.00	0.00
8,400.0	90.00	90.00	5,470.0	-406.2	2,876.1	2,903.8	0.00	0.00	0.00
8,500.0	90.00	90.00	5,470.0	-406.2	2,976.1	3,003.1	0.00	0.00	0.00
8,600.0	90.00	90.00	5,470.0	-406.2	3,076.1	3,102.5	0.00	0.00	0.00
8,700.0	90.00	90.00	5,470.0	-406.2	3,176.1	3,201.8	0.00	0.00	0.00
8,800.0	90.00	90.00	5,470.0	-406.2	3,276.1	3,301.1	0.00	0.00	0.00
8,900.0	90.00	90.00	5,470.0	-406.2	3,376.1	3,400.4	0.00	0.00	0.00
9,000.0	90.00	90.00	5,470.0	-406.2	3,476.1	3,499.8	0.00	0.00	0.00

Integrity Directional Services, LLC

Survey Report

Company:	Burnett Oil Company, INC	Local Co-ordinate Reference:	Well Nosler 12 FED LJ 7H
Project:	Eddy County, NM	TVD Reference:	KB=18' @ 3979.0usft
Site:	Sec 12, T. 17 S., R. 31 E.	MD Reference:	KB=18' @ 3979.0usft
Well:	Nosler 12 FED LJ 7H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Plan#2	Database:	EDM:5000.1 Multi User Db

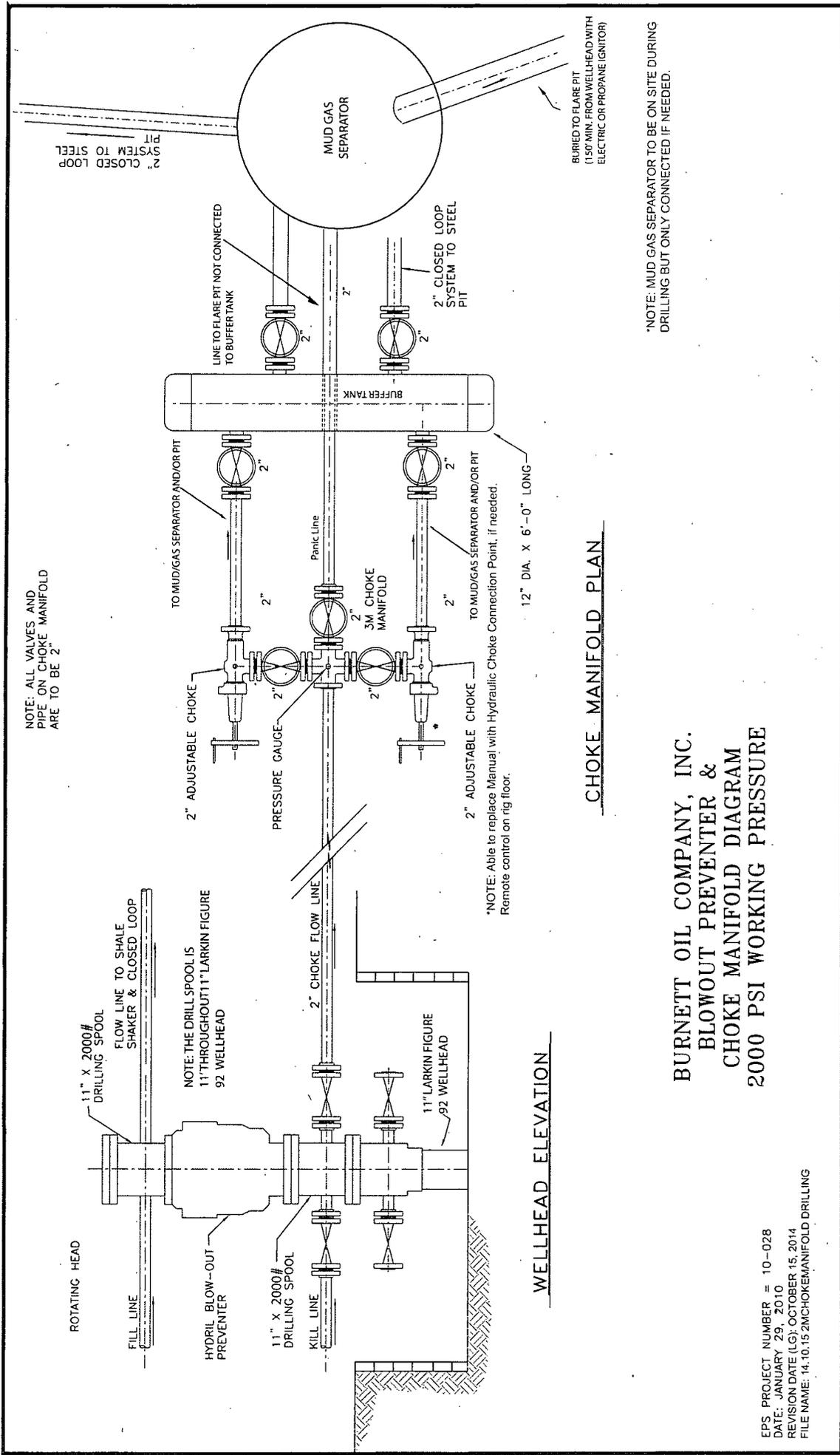
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,006.1	90.00	90.00	5,470.0	-406.2	3,482.2	3,505.8	0.00	0.00	0.00
TD at 9006.1									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/S (usft)	+E/W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Nosler 12 FED LJ 7H	0.00	0.00	5,470.0	-406.2	3,482.2	671,997.70	657,843.40	32° 50' 46.864 N	103° 49' 9.762 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/S (usft)	+E/W (usft)	
2100	2100	0	0	Start Build 3.00
2365	2365	-17	-8	Start 2755.0 hold at 2365.4 MD
5120	5093	-359	-176	Start DLS 16.00 TFO -115.96
5705	5470	-406	181	Start 3301.3 hold at 5704.8 MD
9006	5470	-406	3482	TD at 9006.1

Checked By: _____ Approved By: _____ Date: _____

EXHIBIT K



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

TO MUD/GAS SEPARATOR AND/OR PIT

2" ADJUSTABLE CHOKE

PRESSURE GAUGE

Panic Line

3M CHOKE MANIFOLD

2" ADJUSTABLE CHOKE

TO MUD/GAS SEPARATOR AND/OR PIT

12" DIA. X 6'-0" LONG

*NOTE: Able to replace Manual with Hydraulic Choke Connection Point, if needed. Remote control on rig floor.

CHOKE MANIFOLD PLAN

BURIED TO FLARE PIT (150' MIN. FROM WELLHEAD WITH ELECTRIC OR PROPANE IGNITOR)

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

WELLHEAD ELEVATION

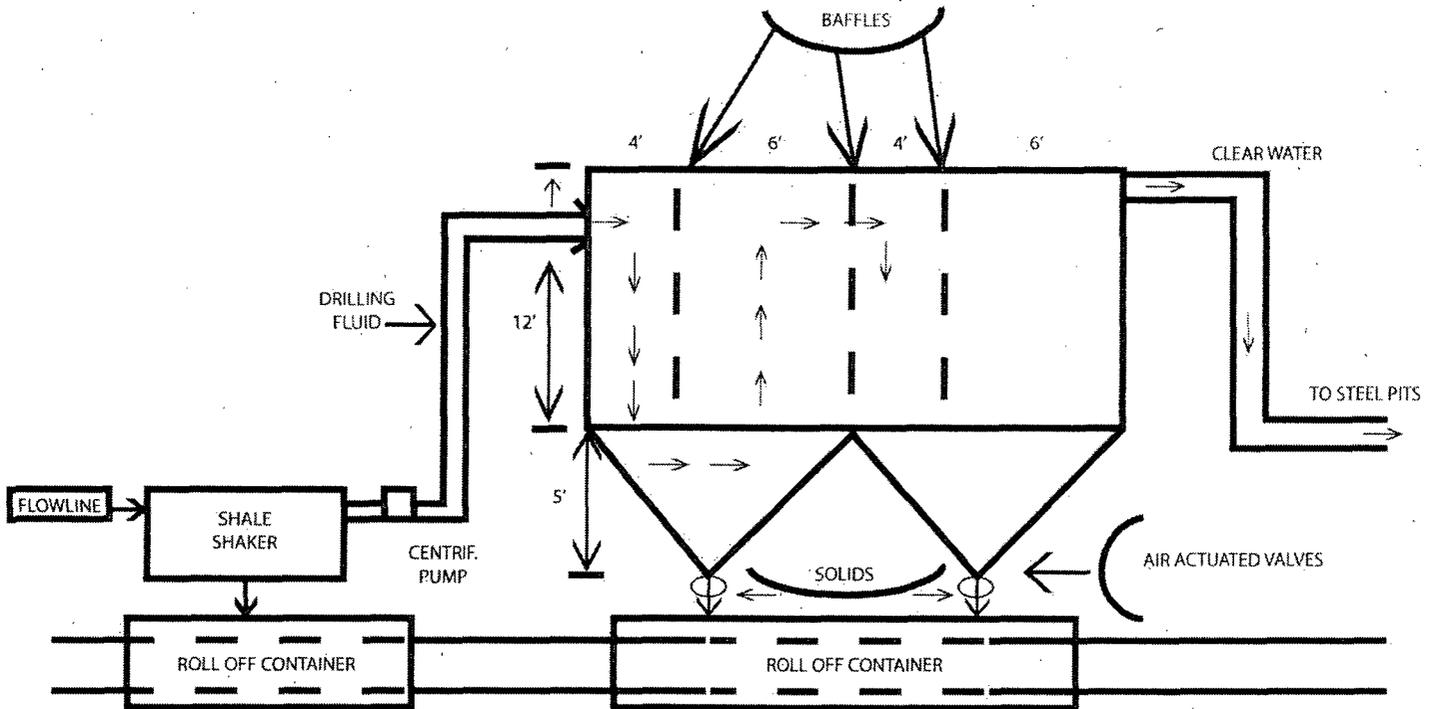
BURNETT OIL COMPANY, INC.
 BLOWOUT PREVENTER &
 CHOKE MANIFOLD DIAGRAM
 2000 PSI WORKING PRESSURE

EPS PROJECT NUMBER = 10-028
 DATE: JANUARY 29, 2010
 REVISION DATE (LG): OCTOBER 15, 2014
 FILE NAME: 14_10_15_2MCHOKEMANIFOLD DRILLING



BURNETT OIL CO., INC.

EXHIBIT L



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 b e hauled off via CRO (Controlled Recovery Incorporated Permit R-9166)



HYDROGEN SULFIDE (H₂S) 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 H₂S 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 (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S 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 (H₂S) CONTINGENCY PLAN DRILLING EXHIBIT N.**
- f. **ATTACHED EMERGENCY CALL LIST FOR ANY ON SITE EMERGENCY DRILLING EXHIBIT O.**

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 H₂S 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 H₂S 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 H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S 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 N - HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

A. Emergency Procedures

In the event of a release of gas containing H₂S, 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 H₂S 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. H₂S 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 (SO₂). 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 H₂S and SO₂

<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 ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	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 O - 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
Engineering Manager 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

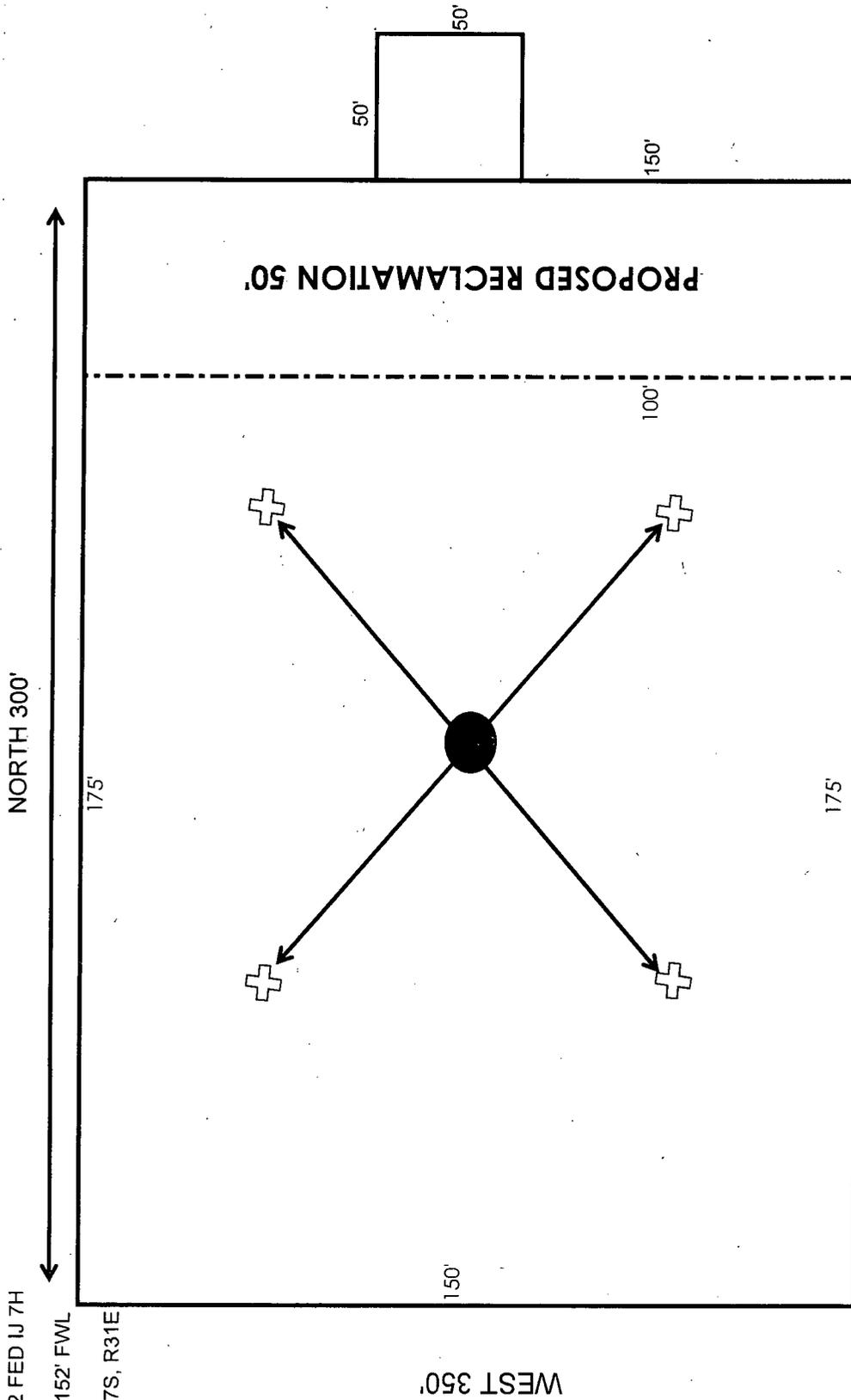
EXHIBIT P

BURNETT OIL CO., INC.
INTERIM RECLAMATION PLAT

NOSLER 12 FED IJ 7H

2080' FSL, 152' FWL

SEC 12, T17S, R31E



NOTE: RECLAIM 50' OFF EAST, AND 50' X 50' STINGER

ANCHOR 75' FROM WELLHEAD TO ANCHORS

WELLHEAD

NOT TO SCALE



BURNETT OIL CO., INC.

SURFACE USE PLAN

1. Existing Roads:

- a. All roads into the location are shown on the Vicinity Map (**Exhibit D**).
- b. Directions to location: On State Hwy 82 at 0.6 mile West of mile marker 141, Take Lease Road North 0.3 miles, then North 1.8 miles on Main Lease Road. Then go East 0.3 miles, continuing East 0.1 miles to proposed location due East. (**Exhibits A,B,F & G**)
- c. 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 lease road will be 33' in length and will enter on the Southwest corner of the location for the existing lease road.
- 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.
 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.

SURFACE USE PLAN

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 H thru J** for the location of existing Nosler 12 Tank Battery facility on this Federal Lease NMLC-029415B (SE1/4 NE1/4) of the Section 11. See **Exhibit Q** for layout of existing, previously approved tank battery.
- b. There will be two flowlines from this well to the Nosler 12 Tank Battery which is located off lease therefore these flowline will be both on and off lease. (Note: ROW: NM-131495A) The required flowlines will be laid above ground and along existing lease road and right of way from Nosler 12 LJ 7H to the Nosler Federal 12 Fed Battery (**Refer to Exhibits H-J**). The flowline(s) will be 3" poly pipe, 1978 ft. in length (**Refer to Exhibits H-J**) 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, cementing and completion operations will be brine or fresh water from one of the following options:

a. Truck Transport

If transported by truck, will be hauled over existing and/or proposed lease road(s) from one of the following water suppliers:

1. Caprock Water (Maljamar, NM) located in the SE1/4SW1/4 of Section 3 in T17S, R32E, Lea County, NM
2. Caprock Water (Loco Hills, NM) located in the Lot 52 of the NW ¼ SE1/4 of Section 21 in T17S, R30E, Eddy County, NM
3. Ray Westall (Loco Hills, NM) located in the Lots 2 & 3 of the NW ¼ SE1/4 of Section 21 in T17S, R30E, Eddy County, NM

b. Waterline

If water is sourced from a water line, we may install a pump and lay a **temporary 2"** poly line from the Ray Westall Water Pit (Maljamar, NM) located in the NW ¼ SE ¼ of Section 12 in T17S, R31E, Eddy County, NM

- c. Burnett has no plans to drill a water supply well on the proposed well location at this time.

6. Construction Materials:

All construction material for the roadway and drilling pad will be native caliche from the nearest BLM approved pit located at NW ¼ SE ¼ of Section 11 in T17S, R31E, Eddy County, NM

SURFACE USE PLAN

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 caliche pit located at NW ¼ SE ¼ of Section 11 in T17S, R31E, Eddy County, NM 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 P**).
- 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.

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 M** shows the relative location and dimensions of the drilling pad and related components. The pad size will be 350 ft.x 300 ft plus a stinger on the East side of the pad. Only minor differences, if any, in length and/or width of the drilling pad are anticipated, depending on which drilling contractor is selected to drill the well. 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 from the existing Lease Road. 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.

SURFACE USE PLAN

- 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.

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 P)**
- 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 P** 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.

- 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 P)**
- 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.

SURFACE USE PLAN

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

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

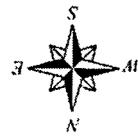
Drilling & Production/Field Representative

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

EXHIBIT Q

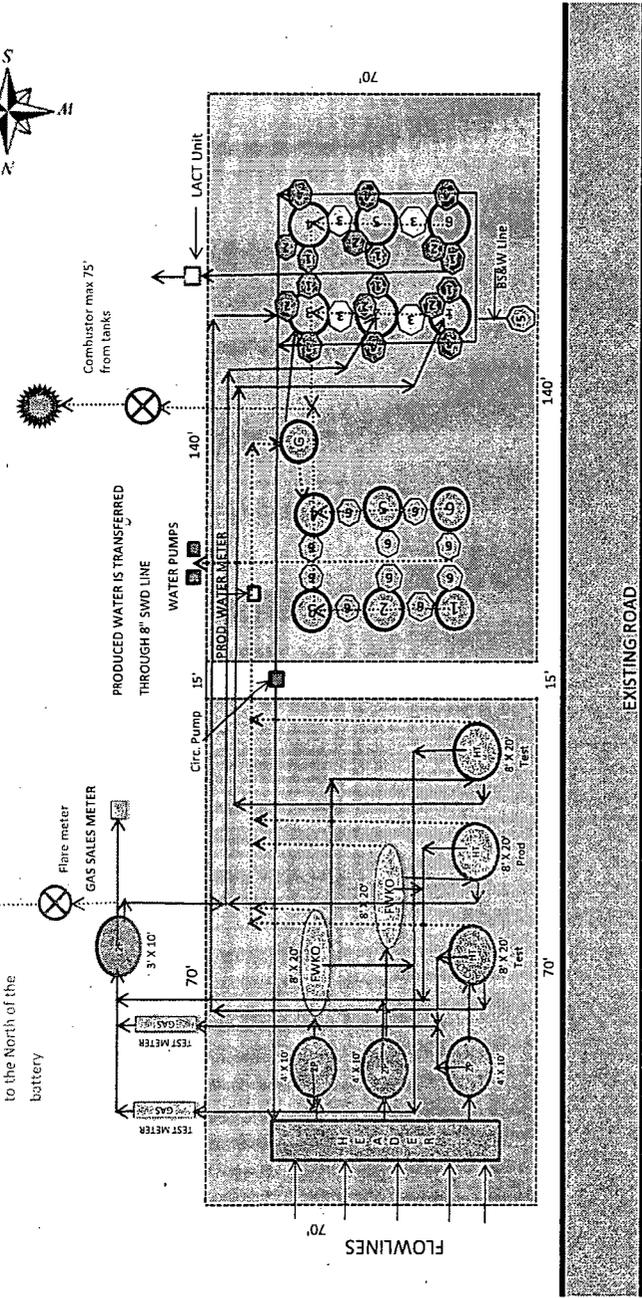
BURNETT OIL CO. INC.
 Nosler 12 Fed Bty
 Unit H, Sec 11, T17S, R31E SENE
 LEASE: NMLC-029415B

10/30/15



NOSLER 12 FED EG 6H LOCATION

Flare may be positioned to the North of the battery



SITE LEGEND

- 500 BBL STEEL OIL SALES TANK
- 500 BBL FIBERGLASS WATER TANK
- 750 BBL FIBERGLASS GUN BARREL
- 2 PHASE SEPARATOR
- FUTURE 2 PHASE SEPARATOR

VALVE LEGEND

- LOAD LINE VALVE
- FILL LINE VALVE
- EQUALIZER LINE VALVE
- COMBUSTOR GAS METER
- FLARE GAS METER
- CIRC LINE VALVE
- BS&W LOAD LINE VALVE
- WATER LINE VALVE
- COMBUSTOR
- EMERGENCY FLARE
- COMBUSTOR LINE
- FLARE LINE

- FWKO
- HEATER TREATER
- WATER LINE
- OIL LINE
- GAS LINE
- CIRCULATING LINE
- FENCED FIREWALL
- FUTURE LINE (ANY COLOR)
- FUTURE HEATER TREATER

BURNETT OIL CO. INC.
 Nosler 12 Fed Bty
 Unit H, Sec 12, T17S, R31E SESE
 LEASE:

ATTACHMENT TO SITE FACILITY DIAGRAM

General sealing of valves, sales by tank gauge

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. Sales by LACT will be by LACT meter.

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



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 APRIL 2016.

Signed: _____

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

SEP 13 2016

**PECOS DISTRICT
CONDITIONS OF APPROVAL**

RECEIVED

OPERATOR'S NAME:	Burnett Oil Co., Inc.
LEASE NO.:	NMLC029415B
WELL NAME & NO.:	Nosler 12 Fed LJ - 7H
SURFACE HOLE FOOTAGE:	2080'/S & 152'/W
BOTTOM HOLE FOOTAGE:	1651'/S & 1651'/E
LOCATION:	Section 12, 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
- 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

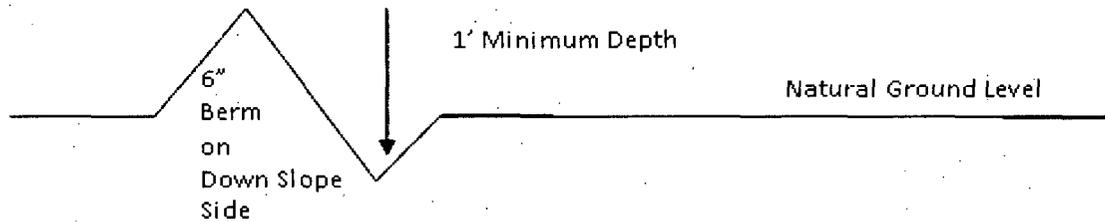
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping 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

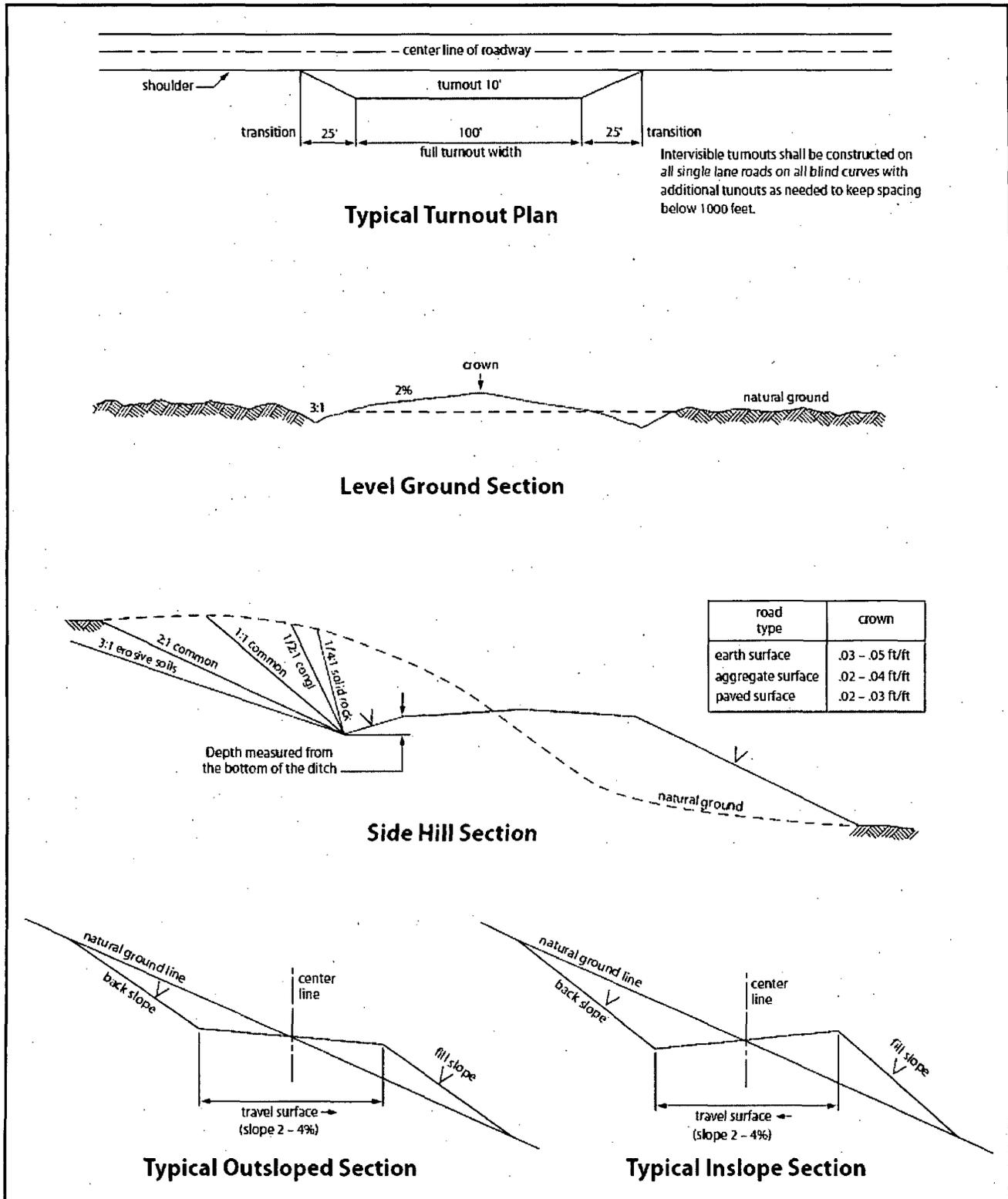


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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 (H₂S) 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 750 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.
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 5400'. 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 should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification.

Operator will not have cement in the lateral. There are utilizing a multiple packer system on the 5 1/2" production casing.

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.

CLN 09062016

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 enclosure 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).

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.

Wildlife

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, geophysical exploration other than 3-D operations, 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. 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 ft. 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.

Watershed

- The entire well pad will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The berm shall be maintained through the life of the well and after interim reclamation has been completed.
- Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion.
- Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control.

Tank Battery COAs Only:

- Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.
- Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

Surface Pipeline COAs Only:

- A leak detection plan will be submitted to the BLM Carlsbad Field Office for approval prior to pipeline installation. The method could incorporate gauges to detect pressure drops, siting valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

Seed Mixture for LPC Sand/Shinnery Sites

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 shall be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed shall be either certified or registered seed. The seed container shall 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). 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. Seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may 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

NMOCD CONDITION OF APPROVAL

The *New* Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the initial 60-day completion period.