

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMLC029415A

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 21. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
PARTITION 13 FED MD 6H2. Name of Operator
BURNETT OIL COMPANY INCContact: LESLIE GARVIS
E-Mail: lgarvis@burnettoil.com9. API Well No.
30-015-43552-00-X13a. Address
801 CHERRY STREET UNIT 9
FORT WORTH, TX 76102-68813b. Phone No. (include area code)
Ph: 817.583.873010. Field and Pool or Exploratory Area
FREN

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 24 T17S R31E NWNW 330FNL 990FWL

11. County or Parish, State
EDDY COUNTY, NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

Burnett Oil is requesting the following changes to the original previously approved APD:

1. Change well name to Partition 13 Fed MD 6H
2. Change well from vertical to horizontal
SHL: 330' FNL, 990' FWL, Unit D, Sec 24, T17S, R31E
BHL: 290' FNL, 990' FWL, Unit D, Sec 13, T17S, R31E
*See Plat for FTP, KOP & LTP
2. Change DV Tool Depth from 5400? to 4700?
2. Change 13 3/8 Surface casing from 48# H40 to 48# J-55 ST&C
3. Change 9 5/8? Intermediate casing from #36 J-55 LT&C to #36 J-55 ST&C
4. Change Casing depth as follows:
 - a. 9 5/8? Intermediate 07-2000?

SEE ATTACHED FOR
CONDITIONS OF APPROVAL
NM OIL CONSERVATION
ARTESIA DISTRICT
SEP 26 2017

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #370407 verified by the BLM Well Information System
For BURNETT OIL COMPANY INC, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH MCKINNEY on 03/27/2017 (17DLM1103SE)

Name (Printed/Typed) LESLIE GARVIS

Title REGULATORY MANAGER

Signature (Electronic Submission)

Date 03/20/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTIA STEVENS

Title PETROLEUM ENGINEER

Date 09/20/2017

Conditions of approval, if any, are attached. Approval of this notice 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.

Office Carlsbad

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

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

RUP 9-29-17

Additional data for EC transaction #370407 that would not fit on the form

32. Additional remarks, continued

- b. ?? Production 0?-4800?
- c. 5 ?? Production 4800?-TD
- 5. Change well head from Larkin to Cactus MBU-LR Wellhead System
- 6. Change to 3000psi BOPE 13 5/8"x 13 5/8" x5K ? DSA 5K to 3K ? BOPE 3K

Documents Attached

- 1. Revised C-102
- 2. Revised Drilling Plan
- 3. Revised HZ Drilling Plan
- 4. New BOP Diagram
- 5. Cactus Wellhead Equipment Info
- 6. Casing API Inspection Info

DRILLING PLAN

Horizontal Yeso

b. Surface Casing Info

The proposed 13-3/8" casing setting depth is +/- 720' 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 have drilled many wells in this area and are able to easily identify the hard streak on the top of the salt.

c. Intermediate casing

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

d. Production casing

We will run 7" x 5-1/2" production casing with a DV Tool at the bottom of the 7" (4700' +/-), then a crossover from 7" to 5-1/2" (4800' –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 external isolation packer will be set at or a few feet inside the lease offset limit with an additional external isolation packer set just above the Glorieta. No completion perforations or ports will be placed between the Glorieta 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.

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

b. **9 5/8" Intermediate Casing:**

DRILLING PLAN

Horizontal Yeso

- 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.

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.

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 the attached diagram will consist of a 3000 PSI Hydril Unit (annular) with hydraulic closing equipment. The equipment will comply with Onshore Order #2 and will be tested to 3,000 psi and maintained for at least ten (10) minutes. The 13 3/8" 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 3000 PSI WP rating.

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

5. Auxiliary Well Control and Monitoring Equipment:

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

DRILLING PLAN

Horizontal Yeso

6. Proposed Mud Circulation System (Closed Loop System)

<u>Depth</u>	<u>Mud Wt</u>	<u>Vis</u>	<u>Fluid Loss</u>	<u>Type System</u>
0' - 720'	8.4 - 9.5		NC	Fresh Water
720' - 2000' MD	10.0 max		NC	Brine Water
2000' – TD MD	10.0 max		NC	Brine Water

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

Pason equipment will be used to monitor the mud system.

7. Logging, Coring and Testing program:

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

8. Potential Hazards:

No abnormal pressures or temperatures are expected. Lost circulation is expected in the surface hole and not expected in the production hole. Water flows can occur periodically at various depths in the production hole. All personnel will be familiar with the safe operation of the equipment being used to drill this well. The maximum anticipated bottom hole pressure is 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.

9. Anticipated Start Date and Duration of Operation

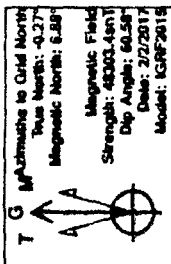
Road and location construction will begin after BLM has approved the APD and has approved the start of the location work. Anticipated spud date will be as soon as the location building work has been completed and the drilling rig is available to move to the location. Move in operations and drilling is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

Burnett Oil Co., Inc.

Burnett Oil Company, INC
Project: Eddy County, NM
Site: Sec. 24, T.17 S., R. 31 E.
Well: Partition 13 FED MD 6H
Wellbore: Wellbore #1
Plan: Plan #4 (Partition 13 FED MD 6H/Wellbore #1)

INTEGRITY
Directional Services

PROJECT DETAILS: Eddy County, NM
 Geographic System: NAD 1983 (Easting solution)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 Spheroid Datum: Mean Sea Level
 Local North: Grid



WELL DETAILS: Partition 13 FED MD 6H
 Ground Elevation: 3825.01
 RKB Elevation: KB=18' @ 3943.01H
 Rig Name:

Northings: 664720.0000 Eastings: 653241.7000 Latitude: 32° 48' 34.975 N Longitude: 103° 48' 40.666 W

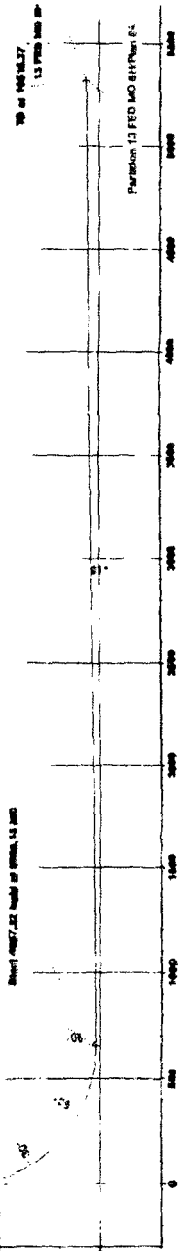
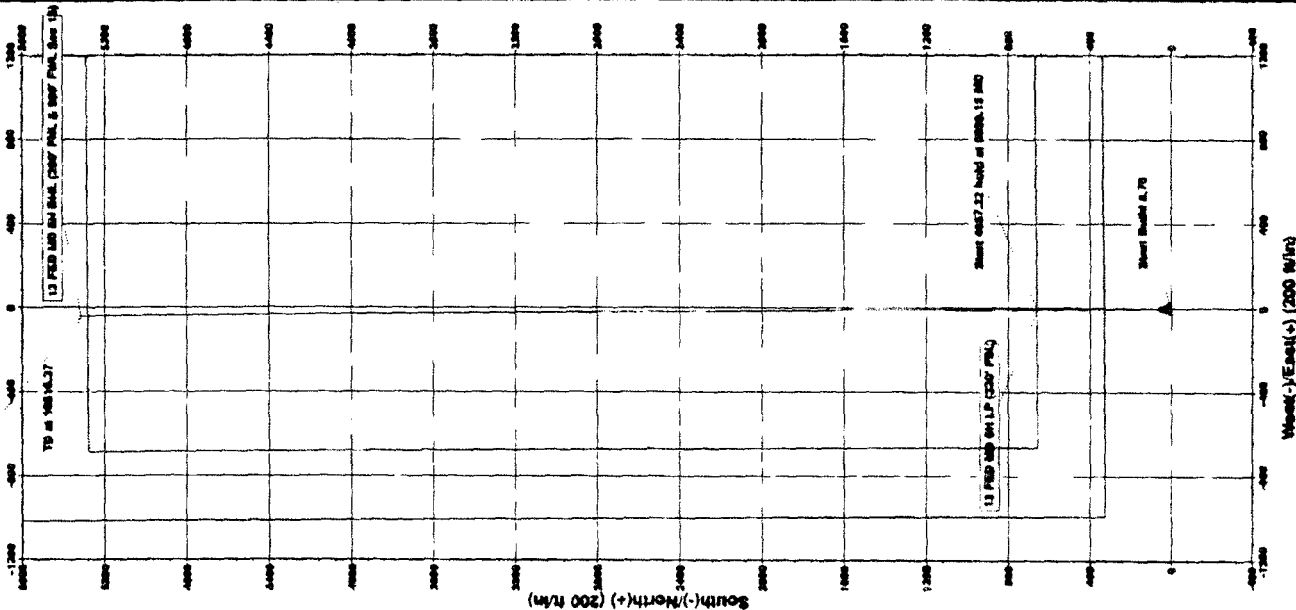
Section Details

Sec	MD	Inc	Adj	TVD	+N-S	+E-W	Diag	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	4825.82	0.00	0.00	4825.82	0.00	0.00	0.00	0.00	0.00
3	5258.15	90.50	358.57	5400.00	650.90	-4.82	8.76	359.57	650.92
4	10516.37	90.50	358.57	5430.26	5316.81	-30.64	0.00	0.00	5316.86

True Vertical Depth (200 ft/m)

Vertical Section at 358.57' (200 ft/m)

Partition 13 FED MD 6H/Plan #4



Burnett Oil Co., Inc.

Burnett Oil Company, INC

Eddy County, NM

Sec.24, T.17 S., R. 31E.

Partition 13 FED MD 6H

Wellbore #1

Plan: Plan #4

Standard Survey Report

07 March, 2017

INTEGRITY
Directional Services

Integrity Directional Services, LLC

Survey Report



Company: Burnett Oil Company, INC
Project: Eddy County, NM
Site: Sec.24, T.17 S., R. 31 E.
Well: Partition 13 FED MD 6H
Wellbore: Wellbore #1
Design: Plan #4

Local Co-ordinate Reference: Well Partition 13 FED MD 6H
TVD Reference: KB=18' @ 3843.01ft
MD Reference: KB=18' @ 3843.01ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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.24, T.17 S., R. 31 E.

Site Position:		Northing:	864,720.0000 usft	Latitude:	32° 49' 34.975 N
From:	Map	Easting:	655,241.7000 usft	Longitude:	103° 49' 40.666 W
Position Uncertainty:	0.00 ft	Shot Radius:	13-3/16 "	Grid Convergence:	0.27 °

Well Partition 13 FED MD 6H

Well Position	+N-S	0.00 ft	Northing:	864,720.0000 usft	Latitude:	32° 49' 34.975 N
	+E-W	0.00 ft	Easting:	655,241.7000 usft	Longitude:	103° 49' 40.666 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	3,825.01 ft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/2/2017	7.16	60.58	48,303

Design Plan #4

Audit Notes:

Version: **Phase:** PLAN **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)
	0.00	0.00	0.00	359.57

Survey Tool Program Date 3/8/2017

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.00	10,516.37	Plan #4 (Wellbore #1)	MWD	MWD - Standard

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00

Integrity Directional Services, LLC

Survey Report



Burnett Oil Co., Inc.

Company: Burnett Oil Company, INC
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Site: Sec.24, T.17 S., R. 31 E.
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MD Reference: KB=18' @ 3843.01ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Multi User Db

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,825.82	0.00	0.00	4,825.82	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 8.76									
4,900.00	6.50	359.57	4,899.84	4.20	-0.03	4.20	8.76	8.76	0.00
5,000.00	15.28	359.57	4,997.95	23.05	-0.17	23.05	8.76	8.76	0.00
5,100.00	24.01	359.57	5,092.04	56.62	-0.42	56.62	8.76	8.76	0.00

Integrity Directional Services, LLC

Survey Report



Company: Burnett Oil Company, INC
 Project: Eddy County, NM
 Site: Sec.24, T.17 S., R. 31 E.
 Well: Partition 13 FED MD 6H
 Wellbore: Wellbore #1
 Design: Plan #4

Local Co-ordinate Reference: Well Partition 13 FED MD 6H
 TVD Reference: KB=18' @ 3843.01ft
 MD Reference: KB=18' @ 3843.01ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Multi User Db

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.00	32.77	359.57	5,179.93	104.12	-0.78	104.12	8.78	8.78	0.00
5,300.00	41.53	359.57	5,259.56	164.45	-1.23	164.46	8.78	8.78	0.00
5,400.00	50.29	359.57	5,329.07	236.20	-1.78	236.21	8.78	8.78	0.00
5,500.00	58.05	359.57	5,388.85	317.70	-2.37	317.71	8.78	8.78	0.00
5,600.00	67.80	359.57	5,431.54	407.05	-3.03	407.06	8.78	8.78	0.00
5,700.00	76.56	359.57	5,462.11	502.15	-3.74	502.17	8.78	8.78	0.00
5,800.00	85.32	359.57	5,477.84	600.81	-4.48	600.82	8.78	8.78	0.00
5,859.15	90.50	359.57	5,480.00	659.90	-4.92	659.92	8.78	8.78	0.00
Start 4857.22 hold at 5859.15 MD									
5,900.00	90.50	359.57	5,479.64	700.74	-5.22	700.76	0.00	0.00	0.00
6,000.00	90.50	359.57	5,478.77	800.74	-5.97	800.76	0.00	0.00	0.00
6,100.00	90.50	359.57	5,477.90	900.73	-6.72	900.75	0.00	0.00	0.00
6,200.00	90.50	359.57	5,477.03	1,000.72	-7.46	1,000.75	0.00	0.00	0.00
6,300.00	90.50	359.57	5,476.15	1,100.72	-8.21	1,100.75	0.00	0.00	0.00
6,400.00	90.50	359.57	5,475.28	1,200.71	-8.95	1,200.74	0.00	0.00	0.00
6,500.00	90.50	359.57	5,474.41	1,300.70	-9.70	1,300.74	0.00	0.00	0.00
6,600.00	90.50	359.57	5,473.54	1,400.70	-10.44	1,400.74	0.00	0.00	0.00
6,700.00	90.50	359.57	5,472.66	1,500.69	-11.19	1,500.73	0.00	0.00	0.00
6,800.00	90.50	359.57	5,471.79	1,600.68	-11.93	1,600.73	0.00	0.00	0.00
6,900.00	90.50	359.57	5,470.92	1,700.68	-12.68	1,700.72	0.00	0.00	0.00
7,000.00	90.50	359.57	5,470.04	1,800.67	-13.43	1,800.72	0.00	0.00	0.00
7,100.00	90.50	359.57	5,469.17	1,900.66	-14.17	1,900.72	0.00	0.00	0.00
7,200.00	90.50	359.57	5,468.30	2,000.66	-14.92	2,000.71	0.00	0.00	0.00
7,300.00	90.50	359.57	5,467.43	2,100.65	-15.66	2,100.71	0.00	0.00	0.00
7,400.00	90.50	359.57	5,466.55	2,200.64	-16.41	2,200.71	0.00	0.00	0.00
7,500.00	90.50	359.57	5,465.68	2,300.64	-17.15	2,300.70	0.00	0.00	0.00
7,600.00	90.50	359.57	5,464.81	2,400.63	-17.90	2,400.70	0.00	0.00	0.00
7,700.00	90.50	359.57	5,463.94	2,500.62	-18.64	2,500.69	0.00	0.00	0.00
7,800.00	90.50	359.57	5,463.06	2,600.62	-19.39	2,600.69	0.00	0.00	0.00
7,900.00	90.50	359.57	5,462.19	2,700.61	-20.13	2,700.69	0.00	0.00	0.00
8,000.00	90.50	359.57	5,461.32	2,800.60	-20.88	2,800.68	0.00	0.00	0.00
8,100.00	90.50	359.57	5,460.45	2,900.60	-21.63	2,900.68	0.00	0.00	0.00
8,200.00	90.50	359.57	5,459.57	3,000.59	-22.37	3,000.68	0.00	0.00	0.00
8,300.00	90.50	359.57	5,458.70	3,100.59	-23.12	3,100.67	0.00	0.00	0.00
8,400.00	90.50	359.57	5,457.83	3,200.58	-23.86	3,200.67	0.00	0.00	0.00
8,500.00	90.50	359.57	5,456.95	3,300.57	-24.61	3,300.66	0.00	0.00	0.00
8,600.00	90.50	359.57	5,456.08	3,400.57	-25.35	3,400.66	0.00	0.00	0.00
8,700.00	90.50	359.57	5,455.21	3,500.56	-26.10	3,500.66	0.00	0.00	0.00
8,800.00	90.50	359.57	5,454.34	3,600.55	-26.84	3,600.65	0.00	0.00	0.00
8,900.00	90.50	359.57	5,453.48	3,700.55	-27.59	3,700.65	0.00	0.00	0.00
9,000.00	90.50	359.57	5,452.59	3,800.54	-28.34	3,800.64	0.00	0.00	0.00
9,100.00	90.50	359.57	5,451.72	3,900.53	-29.08	3,900.64	0.00	0.00	0.00
9,200.00	90.50	359.57	5,450.85	4,000.53	-29.83	4,000.64	0.00	0.00	0.00

Integrity Directional Services, LLC

Survey Report



Company: Burnett Oil Company, INC
 Project: Eddy County, NM
 Site: Sec.24, T.17 S., R. 31 E.
 Well: Partition 13 FED MD 6H
 Wellbore: Wellbore #1
 Design: Plan #4

Local Co-ordinate Reference: Well Partition 13 FED MD 6H
 TVD Reference: KB=18' @ 3843.01ft
 MD Reference: KB=18' @ 3843.01ft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.1 Multi User Db

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,300.00	90.50	359.57	5,449.97	4,100.52	-30.57	4,100.63	0.00	0.00	0.00
9,400.00	90.50	359.57	5,449.10	4,200.51	-31.32	4,200.63	0.00	0.00	0.00
9,500.00	90.50	359.57	5,448.23	4,300.51	-32.06	4,300.63	0.00	0.00	0.00
9,600.00	90.50	359.57	5,447.36	4,400.50	-32.81	4,400.62	0.00	0.00	0.00
9,700.00	90.50	359.57	5,446.48	4,500.49	-33.55	4,500.62	0.00	0.00	0.00
9,800.00	90.50	359.57	5,445.61	4,600.49	-34.30	4,600.61	0.00	0.00	0.00
9,900.00	90.50	359.57	5,444.74	4,700.48	-35.05	4,700.61	0.00	0.00	0.00
10,000.00	90.50	359.57	5,443.86	4,800.47	-35.79	4,800.61	0.00	0.00	0.00
10,100.00	90.50	359.57	5,442.99	4,900.47	-36.54	4,900.60	0.00	0.00	0.00
10,200.00	90.50	359.57	5,442.12	5,000.46	-37.28	5,000.60	0.00	0.00	0.00
10,300.00	90.50	359.57	5,441.25	5,100.45	-38.03	5,100.60	0.00	0.00	0.00
10,400.00	90.50	359.57	5,440.37	5,200.45	-38.77	5,200.59	0.00	0.00	0.00
10,500.00	90.50	359.57	5,439.50	5,300.44	-39.52	5,300.59	0.00	0.00	0.00
10,516.37	90.50	359.57	5,439.36	5,316.81	-39.64	5,316.96	0.00	0.00	0.00

TD at 10516.37

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
13 FED MD 6H BHL (0.00	0.00	5,437.60	5,316.81	-39.60	670,038.6000	655,202.1000	32° 50' 27.587 N	103° 49' 40.632 W
- plan misses target center by 1.56ft at 10516.37ft MD (5439.36 TVD, 5316.81 N, -39.64 E)									
- Point									
13 FED MD 6H LP (3:	0.00	0.00	5,480.00	659.90	-4.92	685,379.8987	655,236.7800	32° 49' 41.505 N	103° 49' 40.687 W
- plan hits target center									
- Point									

Plan Annotations

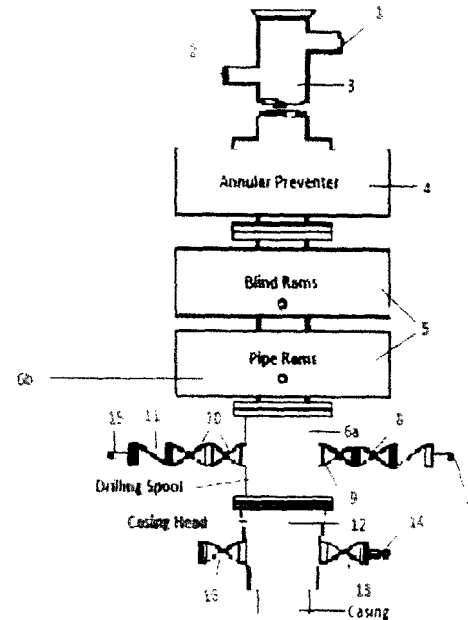
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N-S (ft)	+E-W (ft)	Comment
4826	4826	0	0	Start Build 8.78
5859	5480	660	-3	Start 4857.22 hold at 5859.15 MD
10,516	5439	5317	-40	TD at 10516.37

Checked By: _____ Approved By: _____ Date: _____

Mack Energy Corporation
Minimum Blowout Preventer Requirements
3000 psi Working Pressure
13 5/8 inch- 5 MWP
11 Inch - 5 MWP
EXHIBIT #10

Stack Requirements

NO.	Items	Min. I.D.	Min. Nominal
1	Flowline		2"
2	Fill up line		2"
3	Drilling nipple		
4	Annular preventer		
5	Two single or one dual hydraulically operated rams		
6a	Drilling spool with 2" min. kill line and 3" min choke line outlets		2" Choke
6b	2" min. kill line and 3" min. choke line outlets in ram. (Alternate to 6a above)		
7	Valve Gate Plug	3 1/8	
8	Gate valve-power operated	3 1/8	
9	Line to choke manifold		3"
10	Valve Gate Plug	2 1/16	
11	Check valve	2 1/16	
12	Casing head		
13	Valve Gate Plug	1 13/16	
14	Pressure gauge with needle valve		
15	Kill line to rig mud pump manifold		2"



OPTIONAL

16	Flanged Valve	1 13/16	
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CONTRACTOR'S OPTION TO FURNISH:

1. All equipment and connections above bradenhead or casinghead. Working pressure of preventers to be 2000 psi minimum.
2. Automatic accumulator (80 gallons, minimum) capable of closing BOP in 30 seconds or less and, holding them closed against full rated working pressure.
3. BOP controls, to be located near drillers' position.
4. Kelly equipped with Kelly cock.
5. Inside blowout preventer or its equivalent on derrick floor at all times with proper threads to fit pipe being used.
6. Kelly saver-sub equipped with rubber casing protector at all times.
7. Plug type blowout preventer tester.
8. Extra set pipe rams to fit drill pipe in use on location at all times.
9. Type RX ring gaskets in place of Type R.

MEC TO FURNISH:

1. Bradenhead or casing head and side valves.
2. Wear bushing. If required.

10.

ME

GENERAL NOTES:

1. Deviations from this drawing may be made only with the express permission of MEC's Drilling Manager
2. All connections, valves, fittings, piping, etc., subject to well or pump pressure must be flanged (suitable clamp connections acceptable) and have minimum working pressure equal to rated working pressure of preventers up through choke valves must be full opening and suitable for high pressure mud service.
3. Controls to be of standard design and each marked, showing opening and closing position
4. Chokes will be positioned so as not to hamper or delay changing of choke beans.

Replaceable parts for adjustable choke, or bean sizes, retainers, and choke wrenches to be conveniently located for immediate use.

5. All valves to be equipped with hand-wheels or handles ready for immediate use.
6. Choke lines must be suitably anchored
7. Handwheels and extensions to be connected and ready for use.
8. Valves adjacent to drilling spool to be kept open. Use outside valves except for emergency.
9. All seamless steel control piping (2000 psi working pressure) to have flexible joints to avoid stress. Hoses will be permitted
10. Casinghead connections shall not be used except in case of emergency.
11. Does not use kill line for routine fill up operations

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As shown in Figure 2, the wellhead holds the BOP equipment in position for well control during drilling operation. The wellhead (both A and B Sections) provide a vital link between the BOP and the casing strings required to drill and produce the well. The wellhead assembly is very important and provides several purposes such as:

- To support the weight of the casing string;
- To provide a pressure seal between the casing strings and the environment;
- To provide an outlet for any built up pressure to be bleed off.

Casing Head

The casing head is the lowermost section of the wellhead and may be attached by either a threaded or slip-on and weld connection to fit the casing. Threaded connections are simple to install and easy to remove, however it requires the casing to be run and set with the threaded connection precisely at the desired elevation. Since positioning the connection at the desired elevation is often a problem, a slip-on and weld connection (Figure 3) is commonly used. This requires welding services to complete the installation. When installing the casing head, great care needs to be taken to ensure the casing head is level and aligned with the rotary table. Additionally, the derrick should be level in order to prevent damage to the Kelly and the BOP/casing head system during subsequent drilling operations which could cause damage to the seal and support areas.

After installation, the casing head/casing connection needs to be hydrostatically tested based off of the equipment's rated pressure of the pipe and flanged fittings. The casing head usually provides one or more side openings that provides access to each casing annulus and can be used for bleeding off pressure or pumping into the well. Caution should be taken when pumping mud continuously through these outlets as it

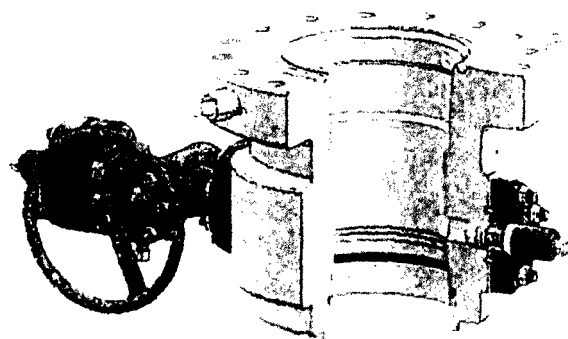


Figure 3 - Slip-On Weld (SOW) Casing Head

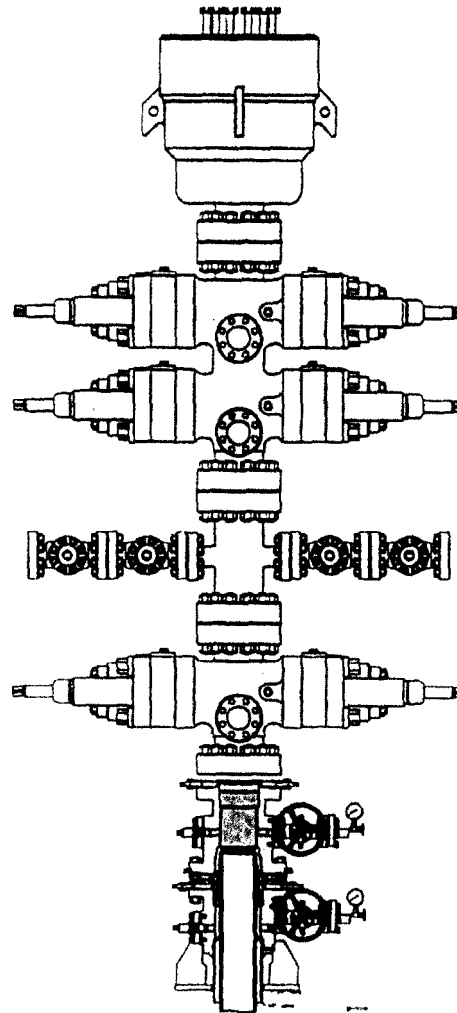


Figure 2 - BOP Stack Made Up to Wellhead

may erode the wellhead, weakening the system. Pressure should be monitored and checked periodically. Casing head side outlets may be attached by thread, studded, clamp hub, and flanged connections. Casing heads with threaded outlets are acceptable for services up to and including 5,000 PSI working pressure provided that the casing head working pressure is rated the same. Some companies require flanged or studded connections for all 5,000 PSI and higher working pressure systems.

In sizing casing heads, the top flange must be sized to permit drilling the desired hole size and subsequent running and hanging of the casing strings. Usually the flange opening is sized to equal or exceeding the casing inside diameter of the casing string that is to be installed.

Adapter spools or flanges to connect BOP's of different sizes or pressure ratings to the casing head are not

CERTIFICATE NO 140324-01
 CONTACT (P/O) NO 73958
 ISSUED DATE 2014-03-21
 COMMODITY E.R.W. STEEL PIPE
 SPECIFICATION API SPEC 5LX
 API SCT 201

INSPECTION CERTIFICATE



NEXTEEL CO., LTD. EXTEEL CO., LTD.

EN10204 TYPE S.1 B-1001

HEAD OFFICE 767-1, Daepak-Ri, Daesong-Myun
 Nam-Gu, Pohang City, Kyungbu
 Korea.

CUSTOMER : ATLAS TUBULAR, LP

DATE OF ISSUE 2014/03/21

ITEM NO.	TYPE OF PIPE	NOM. SIZE	DIMENSION	QUANTITY	TOTAL WEIGHT	HEAT NO.	YIELD STRENGTH	TENSILE STRENGTH	CHEMICAL COMPOSITION (%)										IMPACT TEST			
									C	Mn	P	S	Cr	Ni	Cu	Mo	V	Nb	Al	Si	RE	RE
1	SPC	13-3/8	13.375 x 0.330 x 40	45	41.775	3007490	67,000	82,300	0.01	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
2	BPE	13-3/8	13.375 x 0.330 x 40	1	835	132406985	61,800	81,400	0.01	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
3	BPE	13-3/8	13.375 x 0.330 x 40	1	614	3307490	67,000	82,500	0.01	0.01	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
SUB TOTAL				46	42,161																	

HEAT TREATMENT (WELD SEAM)	VISUAL & DIMENSION	FLATTENING, BEND, GUIDED BEND TEST	REVERSE FLATTENING TEST	WELD QUALITY TEST	FLUORINE TEST	RESIDUAL STRESS TEST	DRIFT TEST	NONDESTRUCTIVE TEST (NOT)
1. SPEC. BLACK PLAIN END.	1. Length (Unit: Feet)	2. Length (Unit: Feet)	3. Length (Unit: Feet)	4. Length (Unit: Feet)	5. Length (Unit: Feet)	6. Length (Unit: Feet)	7. Length (Unit: Feet)	8. Length (Unit: Feet)
2. SPEC. BLACK REVEALED END.	2. SPEC. BLACK REVEALED END.	2. SPEC. BLACK REVEALED END.	2. SPEC. BLACK REVEALED END.	2. SPEC. BLACK REVEALED END.	2. SPEC. BLACK REVEALED END.	2. SPEC. BLACK REVEALED END.	2. SPEC. BLACK REVEALED END.	2. SPEC. BLACK REVEALED END.
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SIGNATURE _____

WE HEREBY CERTIFY THAT THE PRODUCTS HEREIN HAVE BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ORDER.

MANAGER OF QUALITY ASSURANCE TEAM

CERTIFICATE NO. 131122-01
 CONTACT(P/O) NO. 70997
 ISSUED DATE 2013-11-20
 COMMODITY E.R.W. STEEL PIPE
 SPECIFICATION API SCT J55
 API SCT 2013

페이지 13 of 18
 PAGE

검사 증명서 INSPECTION CERTIFICATE

FN10204 TYPE 3.1 B-1991



NEXTEEL CO., LTD.
 NEXTEEL CO., LTD.
 본사 공장 787-1번지
 HEAD OFFICE 787-1, Daesong-Ri, Daesong-Myun,
 Nam-Gu, Pohang City, Kyungbuk,
 Korea.

고객사 CUSTOMER : ATLAS TUBULAR, LP

ITEM NO.	PIPE TYPE OF END	DIMENSION	QUANTITY (PCS)	TOTAL WEIGHT (kg)	HEAT NO.	TENSILE TEST		CHEMICAL COMPOSITION (%)												HYDRO-STATIC TEST		IMPACT TEST		CORROSION TEST			
						YIELD STRENGTH (MPa)	TENSILE STRENGTH (MPa)	C	SI	Mn	P	S	CU	NI	CO	MO	V	AL	Ti	B	NO	CO	TEST	AREA	TEST	TEST	TEST
1	80E	10-2.4	10 750 x 0.400 x 45	20	18,048	SP21600	58,000	94,800	32	14	25.44	177	1403	145	18	2	2	18	74	26	90	2,500	G	135	135	135	135
2	80E	10-2.4	10 750 x 0.320 x 30	10	5,296	SP21600	68,900	95,400	33	14	25.44	176	1400	143	15	2	2	16	74	25	90	2,500	G	135	135	135	135
3	80E	10-2.4	10 750 x 0.320 x 30	10	5,296	SP21600	68,900	95,400	33	14	25.44	174	1399	143	16	2	2	15	74	25	90	2,500	G	135	135	135	135
4	80E	10-2.4	10 750 x 0.320 x 30	10	5,296	SP21600	70,000	97,700	31	14	25.44	177	1375	141	23	2	2	15	74	26	100	2,500	G	135	135	135	135
5	80E	10-2.4	10 750 x 0.320 x 30	10	5,296	SP21600	70,700	98,300	32	14	25.44	173	1372	138	20	1	2	13	74	25	100	2,500	G	135	135	135	135
6	80E	10-2.4	10 750 x 0.320 x 30	10	5,296	SP21600	70,300	98,000	32	14	25.44	174	1371	137	22	2	2	12	74	19	90	2,500	G	135	135	135	135
7	80E	10-2.4	10 750 x 0.320 x 30	10	5,296	SP21600	67,100	92,500	31	14	25.44	166	1362	135	20	2	2	21	74	42	100	2,500	G	135	135	135	135
8	80E	10-2.4	10 750 x 0.320 x 30	10	5,296	SP21600	67,600	93,000	31	14	25.44	166	1359	132	17	2	2	19	74	40	90	2,500	G	135	135	135	135
9	80E	10-2.4	10 750 x 0.320 x 30	10	5,296	SP21600	67,800	93,100	32	14	25.44	166	1350	133	17	1	2	18	74	41	90	2,500	G	135	135	135	135
10	80E	10-2.4	10 750 x 0.320 x 30	10	5,296	SP21600	142,012																				
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PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Burnett Oil Co., Inc.
LEASE NO.:	NMLC029415A
WELL NAME & NO.:	6H-Partition 13 Federal MD
SURFACE HOLE FOOTAGE:	330'/N & 990'/W
BOTTOM HOLE FOOTAGE:	290'/N & 990'/W
LOCATION:	Section 24, T. 17 S., R. 31 E., NMPM
COUNTY:	Eddy County, New Mexico

All other COAs still apply expect the following:

TABLE OF CONTENTS

☒ **Special Requirements**

Lesser Prairie-Chicken Timing Stipulations

☒ **Drilling**

H2S requirements-Onshore Order 6

I. 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.

II. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

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

- Spudding well (minimum of 24 hours)
- Setting and/or Cementing of all casing strings (minimum of 4 hours)
- 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 710 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.
2. The minimum required fill of cement behind the 9-5/8 inch production casing is:
 - ☒ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**
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 4700'. Operator is to submit sundry if DV tool depth varies by more than 100' from approved depth.**
 - a. Second stage above DV tool:
 - ☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

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. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate 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).**
4. 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).
 - b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer.**
 - c. 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.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. 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.**

- f. 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.

ZS 091917

273124d SUNDRY-370407 Partition 13 fed MD 6H 30025 NMLC029415A BURNETT OIL COMPANY 12-54

13 3/8 Segment	surface csg in a #/ft	Grade	17 1/2	inch hole. Coupling	Joint	<u>Design Factors</u>		SURFACE	
"A"	48.00	J 55		ST&C	12.71	Collapse	Burst	Length	Weight
"B"						2.11	2.28	710	34,080
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,349				Tail Cmt	does	circ to sfc.	Totals:	0	0
								710	34,080
<u>Comparison of Proposed to Minimum Required Cement Volumes</u>									
Hole Size	Annular Volume	1 Stage Cmt Sx	1 Stage CuFt Cmt	Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE	Min Dist Hole-Cplg
17 1/2	0.6946	670	1035	548	89	9.50	599	2M	1.56

9 5/8	casing inside the	13 3/8			<u>Design Factors</u>		INTERMEDIATE		
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight	
"A"	36.00	J 55	ST&C	5.47	1.94	1.25	2,000	72,000	
"B"							0	0	
w/8.4#/g mud, 30min Sfc Csg Test psig:						Totals:	2,000	72,000	
The cement volume(s) are intended to achieve a top of				0	ft from surface or a		710	overlap.	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
12 1/4	0.3132	680	1104	690	60	10.00	1629	2M	0.81

7	casing inside the		9 5/8	—		Design Factors		PRODUCTION	
Segment	#/ft	Grade		Coupling	Joint	Collapse	Burst	Length	Weight
"A"	26.00	L 80		LT&C	3.77	2.17	2.56	4,800	124,800
"B"	17.00	L 80		LT&C	4.42	1.95	2.74	5,650	96,050
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500							Totals:	10,450	220,850
B would be:					31.11	2.23	if it were a vertical wellbore.		
No Pilot Hole Planned			MTD	Max VTD	Csg VD	Curve KOP	Dogleg°	Severity°	MEQC
			10450	5439	5439	4826	91	9	5859
The cement volume(s) are intended to achieve a top of					0	ft from surface or a		2000	overlap.
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
8 1/2	0.1268	look ↘	0	1411		10.00			0.42