Form 3160-5 (June 2015)

UNITED STATES

FORM APPROVED

	PARTMENT OF THE II UREAU OF LAND MANA	OF 15 15		aa	r ref	Expires: Ja	anuary 31, 2018
SUNDRY NOTICES AND REPORTS ON WELLS OF AT					Cin Serial No. Cin M2C029339A		
	is form for proposals to II. Use form 3160-3 (API					6. If Indian, Allottee o	or Tribe Name
SUBMIT IN	TRIPLICATE - Other inst	ructions on	page 2			7. If Unit or CA/Agre	ement, Name and/or No.
"					8. Well Name and No.		
☐ Oil Well ☐ Gas Well ☐ Oth		LEGUE OAE	27.40			JACKSON A 55	
2. Name of Operator Contact: LESLIE GARVIS BURNETT OIL COMPANY INC E-Mail: Igarvis@burnettoil.com						9. API Well No. 30-015-43534-(
3a. Address 801 CHERRY STREET UNIT FORT WORTH, TX 76102-68		3b. Phone No Ph: 817.58	o. (include area co 33.8730	code)		10. Field and Pool or CEDAR LAKE	Exploratory Area
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)				11. County or Parish,	State
Sec 13 T17S R30E SWNE 16	50FNL 1650FEL					EDDY COUNTY	Y, NM
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	TE NATURI	E OF 1	NOTICE, I	REPORT, OR OT	HER DATA
TYPE OF SUBMISSION			TYPE	E OF A	CTION		
Notice of Intent ■	☐ Acidize	☐ Dee	pen	(☐ Production	on (Start/Resume)	■ Water Shut-Off
_	☐ Alter Casing	□ Нус	Iraulic Fracturi	ing (Reclama 🗖	tion	■ Well Integrity
☐ Subsequent Report	PPROPRIATE BOX(ES) TO INDICATE NATURE C TYPE O Acidize Deepen Alter Casing Hydraulic Fracturing Casing Repair New Construction Change Plans Plug and Abandon Convert to Injection Plug Back Peration: Clearly state all pertinent details, including estimated starting tally or recomplete horizontally, give subsurface locations and measors will be performed or provide the Bond No. on file with BLM/BL doperations. If the operation results in a multiple completion or recomposition of the will be performed or provide the Bond No. on file with BLM/BL doperations. If the operation results in a multiple completion or recomposition or recomposition of the will be performed or provide the Bond No. on file with BLM/BL doperations. If the operation results in a multiple completion or recomposition or recomposition of the well:		1 [☐ Recompi	lete	Other	
☐ Final Abandonment Notice	☐ Change Plans	🗖 Pluj	g and Abandon	n (□ Tempora	rily Abandon	Change to Original A PD
	Convert to Injection	Plu	g Back		☐ Water D	isposal	
If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involved	ally or recomplete horizontally, rk will be performed or provide I operations. If the operation re bandonment Notices must be fil	give subsurface the Bond No. o sults in a multip	locations and m in file with BLM le completion or	neasured I/BIA. F r recomt	d and true ver Required sub- pletion in a n	tical depths of all perting sequent reports must be ew interval, a Form 316	nent markers and zones. e filed within 30 days 60-4 must be filed once
Burnett Oil would like to chang	ge the casing on the well:						
From/To				_		•	
1. 10-3/4" Surface Casing to 8 2. 7" Production Casing to 5-1	3-5/8" Surface Casing 1/2" Surface Casing	ا	Frond I Mysic	OCD		RECEIVED	
See attached revised Drilling	Plan. A	ccepted for	,		J	AN 1-7 2019	
					DISTRIC	O.C ARTESIA O.C	;.D.
14. I hereby certify that the foregoing is						<u> </u>	
	Electronic Submission # For BURNETT	OIL COMPAN	√Y IŃC, sent to	to the C	Carlsbad	•	
Con Name(Printed/Typed) LESLIE G	nmitted to AFMSS for proc SARVIS	essing by PR			09/28/2018 (TORY MAN	•	/ *{
Signature (Electronic	Submission)		Date 09/2	26/201	8		
	THIS SPACE FO	OR FEDERA	AL OR STA	TE O	FFICE US	SE.	
		- ÷ · · · · · · · · · · · · · · · · · ·	T		-		

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.

_Approved By _DYLAN_ROSSMANGO_

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.

(Instructions on page 2)
** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Ruf 1-25-19

TitlePETROLEUM ENGINEER

Office Carlsbad

Date 01/15/2019



DRILLING PLAN Jackson A 55

SHL/BHL: 1650' FNL, 1650' FEL, Unit G, Sec. 13, T17s, R30E VERTICAL CEDAR LAKE GLORIETA YESO WELL

1. Geological Name of Surface Formation with Estimated Depth:

Geological Name	Estimate Top	Anticipated Fresh Water, Oil or Gas
a. Alluvium	Surface	Fresh Water, Sand
b. Anhydrite	300'	
c. Salt	536'	
d. Base Salt	1253'	
e. Yates	1437'	
f. Seven Rivers	1712'	Oil
g. Queen	2334'	Oil
h. Grayburg	2722'	Oil
i. San Andres	3023'	Oil
j. Glorieta	4543'	Oil
k. Yeso	4614'	Oil
I. Total Depth	Refer to Form 3160-3	

No other formations are expected to yield oil, gas or fresh water in measurable volumes. We will set 8-5/8" casing @ approx. 520' in the Anhydrite, above the salt and circulate cement to surface.

The oil zones will be isolated by running 5-1/2" casing to total depth and circulating cement to surface.

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

(MW = 10.2 PPG IN DESIGN FACTOR CALCULATIONS.)

a. Design Safety Factors:

Туре	<u>Hole</u> Size	<u>Interval</u>	OD Csg	<u>Weight</u>	Collar	<u>Grade</u>	Collapse Design <u>Factor</u>	Burst Design <u>Factor</u>	Tension Design <u>Factor</u>
Conductor		0'-90'	14"	Contr	actor Disc	retion			
Surface	12-1/4"	0' - +/- 520'	8-5/8"	24.00#	ST & C	J55	1.125	1.00	1.80
Production	7-7/8"	0' - TD	5-1/2"	17.00#	LT & C	J55	1.125	1.00	1.80

DRILLING PLAN VERTICAL LOCO HILLS GLORIETA YESO WELL

b. Surface Casing Info

The proposed casing setting depth is +/- 520' 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. Production Casing Info

Production casing will be set to TD with float shoe on bottom, float collar in first collar, centralizers throughout intervals and above and below a DV Tool set at +/-2600'. After drilling out and testing the casing to 2000 PSI, a cement bond log will be run to evaluate the cement job.

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

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

a. 8-5/8" Surface Cement to surface

- 330 sx C +2% PF1 (Calcium Chloride) + PF424 (Water Gelling Agent), mixed at 14.8 ppg, Yield 1.34 with 6.3 gal water per sack.
- 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. When circulating cement, if surface pressures indicate cement is low in the annulus, temperature survey results will be reviewed with BLM representative to determine the remediation needed.

b. 5-1/2" Production Casing

Stage 1: Lead: 260 sx 35/65 P/C +5 %PF44 (BWOW)(Salt)+6% PF20 (Bentonite Gel) +0.2% PF153 (Anti Settling) +0.3% PF13 (Retarder) +0.1 25#/sx PF29 (Celloflake) +3#/sx PF42 (Kolseal) +0.4#/sx PF45 (Defaomer), mixed at 12.5 ppg, Yield 2.11 with 11.364 gal water per sack.

Tail: 330 sx C +0.3%PF13 (Retarder), mixed at 14.8 ppg, Yield 1.33 with 6.298 gal water per sack.

30% excess cement.

Stage 2: Lead: 340 sx 35/65 P/C + 5% PF44 (BWOW)(Salt) +6% PF20 (Bentonite Gel) +0.2% PF153 (Anti Settling) +0.125#/sx PF29Celloflake) +3#/sx PF42 (Kolseal) +0.4#/sx PF45 (Defaomer), mixed at 12.5 ppg, Yield 2.11 with 11.362 gal water per sack.

Tail: 200 sx C Neat, mixed at 14.8 ppg, Yield 1.32 with 6.3 gal water per sack.

140% excess cement.

DRILLING PLAN VERTICAL LOCO HILLS GLORIETA YESO WELL

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

4. Pressure Control Equipment:

The blowout prevention equipment (BOPE) shown in **Exhibit L** 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 50% of rated working pressure (RWP), and maintained for at least ten (10) minutes. The 8-5/8" 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 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.
- A full opening drill pipe stabbing valve with the appropriate connections on the rig floor at all times.
- c. Hydrogen Sulfide detection and breathing equipment will be installed and in operation at drilling depth of 1800' (which is more than 500' above top of Grayburg) until 5-1/2" casing is cemented.
- d. An H2S compliance package will be on all sites while drilling.

6. Proposed Mud Circulation System

<u>Depth</u>	Mud Wt	<u>Visc</u>	Fluid Loss	Type System	Max Volume
0' - +/-520'	8.6 - 9.5			Fresh Water	
+/- 520' - TD' MD	10.0 max			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. Any drill stem tests will be based on geological sample shows and planned before spudding.
- b. The open hole electrical logging program will be:
 - 1. Total depth to 1000': Dual Laterolog-Micro Laterolog with Compensated Neutron, Spectral Density log with Spectral Gamma Ray and Caliper.
 - 2. Total depth to Surface: Compensated Neutron with Spectral Gamma Ray.
 - 3. Coring program will be planned and submitted on a well by well basis.
 - 4. Additional testing will be done after setting the 5-1/2" production casing. The specific Intervals will be based on log evaluation, geological sample shows and/or drill stem tests.

DRILLING PLAN VERTICAL LOCO HILLS GLORIETA YESO WELL

8. Potential Hazards:

No abnormal pressures or temperatures are expected. Lost circulation is expected in the surface hole and not expected in production 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 2715#. This is based upon the following formula of .445 x BH ft. estimate. The anticipated bottom hole temperature is 105°F. This is based upon logs of wells in this area.

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 specific 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 and drilling is expected to take approximately 11 days. If production casing is run, an additional 60 days would be required to complete the well and install the necessary surface equipment (pumping unit, electricity, flowline and storage facility) to place the well on production.

10. Completion Procedure

Upon completion of drilling operations, this well will be perforated and frac'd in multiple stages. Due to the completion process that Burnett utilizes, we do not anticipate any flowback. Upon completion of stimulation, the well will be put on production.

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME: BURNETT OIL COMPANY INC

LEASE NO.: | NMLC029339A

WELL NAME & NO.: | JACKSON A 55 SURFACE HOLE FOOTAGE: | 1650'/N & 1650'/E BOTTOM HOLE FOOTAGE | VERTICAL WELL

LOCATION: | T-17S, R-30E, S13. NMPM

COUNTY: | EDDY, NM

Potash	© None	Secretary	⊂ R-111-P
Cave/Karst Potential	• Low	^C Medium	↑ High
Variance	• None	Flex Hose	C Other
Wellhead	© Conventional	Multibowl	
Other	☐4 String Area	☐Capitan Reef	□WIPP

All other previous conditions of approval still apply.

A. CASING

- 1. The 8-5/8 inch surface casing shall be set at approximately 480 feet (a minimum of 25 feet into the Rustler Anhydrite and 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 will be a minimum of **8** hours or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - 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 5-1/2 inch production casing is:
 - a. Cement to surface. If cement does not circulate see A.1.a, c-d above.

DR 1/15/2019