UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO 1004-013. Expires: July 31, 201

) 5	R	M
		'

SUNDRY NOTICES AND REPORTS ON WELLS JUL 20 2000

NMLC029342B

Lease Serial No.

Do not use the abandoned we	ZUUS	6 If Indian, Allottee or Tribe Name					
SUBMIT IN TRI	PLICATE - Other instruc	ctions on rev	erse side.	_ 	7 If Unit of CA/Agree	ement, Name and/or No.	
1 Type of Well				 ERAL 1			
☐ Gas Well ☐ Otl		· · · · · · · · · · · · · · · · · · ·					
Name of Operator MACK ENERGY CORPORAT		KANICIA CA conchoresource		•	9. API Well No. 30-015-31565-0	0-S1	
3a Address		3b. Phone No Ph: 432-68	(include area code 5-4332)	10 Field and Pool, or LOCO HILLS	Exploratory	
ARTESIA, NM 88211-0960							
4 Location of Well (Footage, Sec., 7	, R., M., or Survey Description	n)			11. County or Parish,	and State	
Sec 17 T17S R30E SENW 23	10FNL 2210FWL ·				EDDY COUNTY	′, NM	
12. CHECK APPI	ROPRIATE BOX(ES) TO	O INDICATE	NATURE OF N	NOTICE, R	EPORT, OR OTHE	R DATA	
TYPE OF SUBMISSION			TYPE O	F ACTION			
	☐ Acidize	⊠ Dee	pen	n Produc	tion (Start/Resume)	Water Shut-Off	
Notice of Intent	Alter Casing	_	ture Treat	☐ Reclam		☐ Well Integrity	
Subsequent Report	Casing Repair	_	Construction	Recom		Other	
Final Abandonment Notice	Change Plans	_	and Abandon	_	rarily Abandon	[] Other	
T mai Abandonnient Nonce	_	•		_			
13. Describe Proposed or Completed Op	Convert to Injection	□ Plug		□ Water I			
Attach the Bond under which the wo following completion of the involve testing has been completed. Final A determined that the site is ready for	d operations If the operation r bandonment Notices shall be fi final inspection.)	esults in a multipiled only after al	ole completion or re	completion in	a new interval, a Form 3	160-4 shall be filed once	
COG Operating respectfully re	equests 180 days approv	al.		ests.			
See attachment.			•				
•	SEE ATTAC	HED FO	R		•		
	CONDITION		-		•	•	
, , , , ,	C	•			,		
•	*						
14. I hereby certify that the foregoing i	s true and correct. Electronic Submission #	70454 vorific	Lby the DI M Mol	Information	Suntam		
Con	For MACK ENE nmitted to AFMSS for proc	RGY CORPOR	RATION, sent to t	he Carlsbad			
Name(Printed/Typed) KANICIA	CARRILLO	,	Title PREPA	RER		3	
Signature (Electronic	Submission)	-	Date 06/02/2	009	·		
	THIS SPACE FO	OR FEDERA	L OR STATE	OFFICE U	SE		
Approved By WESLEY INGRAM			TitlePETROLE	UM ENGIN	EER	2009 Date 07/25/20	
Conditions of approval, if any, are attach	ed Approval of this notice doe	es not warrant or	1				
certify that the applicant holds legal or ec which would entitle the applicant to cond	uitable title to those rights in the						

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.

DISTRICT I P.O. Box 1980, Hobbe, NM \$6341-1980 State of New Mexico

Engery, Minarals and Satural Resources Departs

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies For Lease - 3 Copies

DISTRICT II P.O. Drewer BB, Artesia, NM 88215-0710

OIL CONSERVATION DIVISION

DISTRICT III 1000 Ric Brazos Rd., Arton, NM 87410

P.O. Box 2088 Santa Fe, New Merico 87504-2088

I AMENDED REPORT

DISTRICT IV P.O. Box 2088, Santa Fe, NM 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	. Pool Code	Pool Name						
30-015-31565	96718	96718 Loco Hills Gloriet						
Property Code 302547		Property Name POLARIS "B" FEDERAL						
ogrio No. 229137	• •	otor Name ating LLC	Elevation 3660					

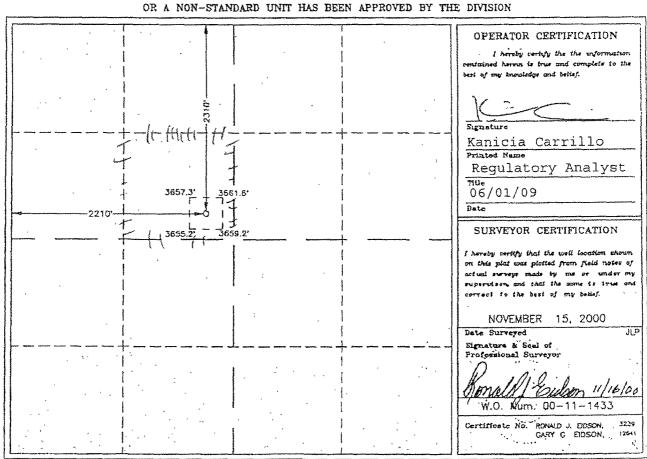
Surface Location

	UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County	į
٠	F	17	17 S	30 E		2310	NORTH	2210	WEST	EDDY	

Bottom Hole Location If Different From Surface

UL or lot Na.	Section	Section Township		lot ldn	Peet from the	North/South line	Feet from the	East/West line	County
		΄.						-	
Dedicated Acres	Joint or	Infill Co	insolidation Co	ode Ore	ier No.		L	<u></u>	
40	-								

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



POLARIS B FED #1 DEEPENING PROGRAM

1. Estimated Tops of Important Geologic Markers

Yeso Group +/- 4250'

2. Estimated Depths of Anticipated Fresh Water, Oil, and Gas

Yeso Group +/- 4250'

This deepening originates in the Yeso and will finish at the base of the Yeso. The entire Yeso group is an oil and gas bearing interval.

3. Casing Program

Hole Size	Interval	OD Casing	Weigh	Grade **	Jt./Condition	Burst/collapse/tens
4-3/4"	4623' – 6000'	4"	11.3#	L-80 or P-110	ULT-FJ/New	3.98/4.09/3.21 (L80) 5.47/5.23/4.25 (P110)

^{**} Due to casing shortages, either L-80 or P-110 will be run. The exact grade is unknown at time of requesting permit.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE 0.422" STAND OFF RULE BETWEEN CASING AND WELLBORE.

4. Cement Program

4" Liner: Class C, 115 sxs, yield 1.37. 110' minimum tie back to production casing.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE LINER TOP FLUID ENTRY OR PRESSURE TEST BECAUSE THE DEEPENED WELL WILL BE COMPLETED IN THE SAME ZONE AS THE CURRENT PERFS AND THE ENTIRE INTERVAL IS RECOGNIZED BY THE OCD AS ONE INTERVAL (YESO). AS PER ONSHORE ORDER NO. 2 SECT III: REQUIREMENTS, PART B. CASING AND CEMENTING REQUIREMENTS, SUBPART b. "NO TEST SHALL BE REQUIRED FOR LINERS THAT DO NOT INCORPORATE OR NEED A SEAL MECHANISM." COG BELIEVES WE MEET THE CRITERIA TO NOT BE REQUIRED TESTING THE LINER TOP BECAUSE THERE IS NO NEED FOR A SEAL MECHANISM.

NOTE: COG OPERATING LLC REQUESTS A VARIANCE TO THE 200' MINIMUM TIE BACK TO THE PRODUCTION CASING BECAUSE THE LOWEST PERFORATION IS AT 4585'. THE 110' WILL ALLOW US TO NOT COVER EXISTING PERFORATIONS.

5. Minimum Specifications for Pressure Control

The BOP equipment will be a 3000 psi double ram type manually operated preventer. This equipment will be nipple up to a 7-1/16" 3K flange. The pipe rams are located above blind rams. There is no choke or kill manifold. The BOP is tested to 500 psi prior to drilling new formation. Access to the annulus will be through the valves on the 5-1/2" casing head.

6. Types and Characteristics of the Proposed Mud System

This well will drilled from end of the existing 5-1/2" casing to TD with 2% KCl.

Sec

7. Auxillary Well Control and Monitoring Equipment

A. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

8. Logging, Testing, and Coring Program

- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be run from TD to 5-1/2" production casing shoe.
- B. No drill stem tests.
- C. No conventional coring anticipated.
- D. Further testing procedures will be determined after the 4" liner has been cemented at TD, based on drill shows and log evaluation.

9. Abnormal Conditions, Pressure, Temperatures, and Potential Hazards

No abnormal pressures or temperatures are anticipated. The estimated bottomhole temperature at TD is 110 degrees and the estimated maximum bottomhole pressure is 2300 psig. The drilling starts in the Yeso and ends in the Yeso. The section of Yeso being drilled has very low permeability (less than 1 md).

10. Anticipated Starting Date and Duration of Operations

There will be no road or location work required as this is an existing well location. Once commenced, drilling operations should be finished in approximately 14 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made.

11. Centralizer Program

Fixed blade stabilizer subs will be utilized in the casing string to insure adequate isolation and seal throughout the wellbore. These stabilizer subs are positive fixed blade type. These subs will actually be screwed into the casing string. A diagram of the fixed blade stabilizer sub is located at the end of this program.

The standard location of the stabilizers will be the following:

Shoe Location

Guide shoe, 1 jt casing, stabilizer sub, float collar, 1 jt casing, stabilizer sub

Perf Interval Location – between perf intervals Stabilizer sub, 1 jt casing, stabilizer sub

Top of Liner Location

DV tool, 1 it casing, stabilizer sub, 1 it casing, stabilizer sub

12. Summary Drilling and Completion Program

Deepening Procedure

- 1. MIRU rig...
- 2. Saz upper Yeso w/ +/- 400 sx of Class C neat. Drill out squeeze.

Created by Neevia Document Converter trial version http://www.neevia.com

- 3. PU 4-3/4" bit and drill 4-3/4" hole from 4740' to 6000'.
- 4. POOH w/ bit and drillstring.
- 5. RIH w/ logs and log from TD to 4700'.
- 6. RIH w/ 4", 11:3# casing. See section 11 for general centralizer program.
- 7. Cement casing from TD to 4623' w/ 115 sxs Class C cmt. Drop plug and open DV tool. Circ cmt off DV tool. Drop plug to close DV tool.
- 8. PU workstring and RIH and drill out DV tool. POOH and LD workstring.
- 9. RDMO rig.

Completion Procedure

- 1. MIRU rig.
- 2. RIH/w/perforating guns and perforate Yeso from 5700 5900 w/ 2 spf, 30 holes.
- 3. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 5650'.
- 4. RIH w/ perforating guns and perforate Yeso from 5400' 5600'.
- 5. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand. Set plug at 5350'
- 6. RIH w/ perforating guns and perforate Yeso from 5100' 5300'.
- 7. Acidize w/ 2500 gals of 15% HCl. Frac zone w/ 179,800 # of sand.
- 8. RIH and drill out plug at 5350' and 5650'.
- 9. RIH and cut or back off 4" casing at 4623'. POOH w/ 4" casing. Leave 4" liner from 4623' to 6000' (TD).
- 10. RIH w/tbg and locate end of tbg at 4500'.
- 11. RIH w/rods and pump.
- 12. RDMO rig.

e e es propers m	·	1	·	·		······································	 **************************************	26.486.21216111	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	eressee						
	1, 178 6.35 4. 560 H. 3911 Macholy A.	>	ONO TO STATE OF THE OWNER OF THE OWNER OF THE OWNER OW	4					, 3.C. 33.73°		Retween		H" 6"		18"	
	3303	RET		,		_	100 mm						**************************************	Y		
MATERIAL	CARING	MET WHEN YOU	CLENT			-	; }	<u> </u>			,		4	•		•
434×34×18 4185	4" FIRE 116	G	Comedo Res	CENTRALIZED	RAY OIL TOOL CO.		K		P.CE.			LB PILS	4			-

Polaris B Federal 1 COG Operating LLC 30-015-31565 July 25, 2009 Conditions of Approval

- 1. Work to be complete within 180 days.
- 2. Surface disturbance beyond the existing pad requires prior approval.
- 3. Closed loop system to be used.
- 4. H2S monitoring equipment should be onsite for personnel protection from surrounding oil operations. Operator should not encounter H2S while deepening.
- 5. BOP to be tested to 1000 psi based on BHP expected.
- 6. Variance for stand-off of less than 0.422" is approved due to NMOCD classifying the formations in this area as the Yeso group.
- 7. Variance approved for a minimum tie back of 110'. When plugged, cement plug will be required across this tie back and across squeezed perforations.
- 8. Variance for not testing seal also approved based on NMOCD classification of formations in this area as the Yeso group.
- 9. If cement does not circulate to DV tool, the appropriate BLM office is to be notified.
- 10. Test casing as per Onshore Order 2.III.B.1.h.
- 11. Subsequent sundry detailing work and current well test data are to be submitted when work is complete.

WWI 072509