Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: July 31, 2010

E	xpires: .	July	31.
Lease Serial	Nọ.		

	NOTICES AND REPO is form for proposals to				NMNM0559539	
abandoned we	II. Use form 3160-3 (API	D) for such prop	ากรลไร	ocn [6. If Indian, Allottee	or Tribe Name
CUDWINID	DI ICATE Other in the	******	HORBS	,000	7. If Unit or CA/Agre	ement, Name and/or No.
וואושטכ אווו וואו	PLICATE - Other instruc	tions on revers	0	2 2014		,
1. Type of Well			SEP &	B CO.	8. Well Name and No. JAMES FEDERA	
Oil Well Gas Well Oth		TEDDI 07 4 TUE				L 22FI
Name of Operator CIMAREX ENERGY COMPAR	NY OF CO-Mail: tstathem@	TERRI STATHE cimarex.com	M REC	EIVED	9. API Well No. 30-025-41363-0	00-X1 /
3a. Address 600 NORTH MARIENFELD S MIDLAND, TX 79701	TREET, SUITE 600	3b. Phone No. (inc Ph: 432-620-1			10. Field and Pool, or SAND DUNES	Exploratory
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description)			11. County or Parish,	and State
Sec 29 T23S R32E NENE 189			•	ļ	LEA COUNTY,	NM
32.165595 N Lat, 103.412496	vv Lon /					
12. CHECK APPI	ROPRIATE BOX(ES) TO) INDICATE NA	ATURE OF N	OTICE, RE	PORT, OR OTHE	R DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Notice of Intent	☐ Acidize ·	□ Deepen		☐ Producti	on (Start/Resume)	☐ Water Shut-Off
■ Notice of Intent	☐ Alter Casing	□ Fracture	Treat	Reclama	tion	■ Well Integrity
☐ Subsequent Report	Casing Repair	■ New Co	nstruction	☐ Recomp	ete	⊠ Other
☐ Final Abandonment Notice	☐ Change Plans	Plug and	l Abandon	☐ Tempora	rily Abandon	Change to Original A PD
	Convert to Injection	Plug Ba	ck	■ Water D	isposal	
13. Describe Proposed or Completed Opt If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Abdetermined that the site is ready for final Due to lost circulation encount follows: Approved: 5.5" 20# L-80 LTC/BTC Proposed: 7" 26# L-80 at approximately Stage tool and ACP at approx Stage 1 lead cement: 120 sx to Stage 1 tail cement: 260 sx Vo Stage 2 cement: 325 sx tuned Centralizers every other joint in	ally or recomplete horizontally, it will be performed or provide operations. If the operation respondent Notices shall be file inal inspection.) tered starting at 7250' we shall be file inal inspection.) tered starting at 7250' we imately 7000' uned light lead at 10.8 ppg 1.2 light lead at 10.8 ppg 1.2 light lead at 10.8 ppg 2.2 light lead a	give subsurface loca the Bond No. on file sults in a multiple con do only after all requi request to chang proximately 80 d g 2.78 yield 22 yield	tions and measure with BLM/BIA. mpletion or reconfirements, including the casing of th	ed and true ver Required sub mpletion in a ning reclamation design as ation)	nical depths of all pertir sequent reports shall be ew interval, a Form 316, have been completed,	nent markers and zones. filed within 30 days 60-4 shall be filed once and the operator has
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #2	064277 verified b.	the BLM Well	Information	System	
· · · · · · · · · · · · · · · · · · ·	For CIMAREX EN	ERGY COMPANÝ	OF CO, sent t	to the Hobbs		
Name(Printed/Typed) TERRI ST	tted to AFMSS for processi	ng by CHRIS OP			GULATORY COM	PLIA
TEITH OF	7 1 1 1 C IVI					

14. I hereby certify that	It the foregoing is true and correct. Electronic Submission #264377 verifie For CIMAREX ENERGY COMPA Committed to AFMSS for processing by CHRIS	ANÝ OF	CO, sent to the Hobbs	13SE)	
Name(Printed/Type	d) TERRI STATHEM	Title	COORDINATOR REGULATOR	RY COMPLIA	
Signature	(Electronic Submission) THIS SPACE FOR FEDERA	Date	09/18/2014 // STATE OFFICE USE	Kar	
		T			
Approved By CHRIS	STOPHER WALLS	Title	PETROLEUM ENGINEER		Date 09/18/2014
certify that the applicant	f any, are attached. Approval of this notice does not warrant or holds legal or equitable title to those rights in the subject lease pplicant to conduct operations thereon.	Offic	e Hobbs		
	001 and Title 43 U.S.C. Section 1212, make it a crime for any pous or fraudulent statements or representations as to any matter w			artment or agency	of the United

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

Additional data for EC transaction #264377 that would not fit on the form

32. Additional remarks, continued

Drill 6" or 6.125" lateral
4.5" 11.6# L-80 Liner with liner hanger and packer or expandable type hanger - TOL: between
8650-8750'
Cement: 330 sx VersacemH at 14.5 ppg, 1.22 yield
TOC planned at 7" shoe
No centralizers

Verbally approved by C. Walls 9-16-14.

Conditions of Approval James Federal 22 Cimarex Energy Company of Co.

1. The minimum required fill of cement behind the 7 inch production casing is:

Operator has proposed DV/ACP tool at a depth of 7000'. Operator is to submit sundry if

DV tool depth varies by more than 100' from approved depth.
a. First stage to DV tool:
□ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.
b. Second stage above DV tool:
□ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.
2. The minimum required fill of cement behind the 4-1/2 inch production liner is:
Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

In a Lesser Prairie-Chicken section.

133/8	surface	csg in a 17 1/2	inch hole.	<i>a e= a e= a e</i>	<u>Design</u>	Factors	SUR	RFACE
Segment	#/ft	Grade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	48.00	H 40	ST&C	5.16	1.36	0.7	1,300	62,400
w/8.4#/g mu	ıd, 30min Sfc (Osg Test psig: 644	Tail Cmt	does not	circ to sfc.	Totals:	1,300	62,400
Comparison of	f Proposed	to Minimum Require	d Cement Volume	es_				
Hole	Annular	1 Stage 1 Stag	e Min	1 Stage	Drilling	Calc	Reg'd	Min Dist
Size	Volume	Cmt Sx CuFt Ci	mt Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
17 1/2	0.6946	960 1610	957	68	8.40	1433	2M	1.56
. ~			м*	•	•	٠.		

95/8	casing in	side the	$1\overline{3}\overline{3}/8$	casing.	<i>C A</i> .	_	<u>Design F</u>	actors	INTER	MEDIATE
Segment	#/ft	Gr	ade	Couplin	g	Joint	Collapse	Burst	Length	Weight
"A"	40.00	J	55	LT&C		2.72	1.31	0.96	4,785	191,400
"B"		The second secon	range paragram et man ing ping				2	· · · · · · · · · · · · · · · · · · ·	0	. 0
w/8.4#/g mu	ıd, 30min Sfc C	Sg Test psig:	677					Totals:	4,785	191,400
The ce	ment volum	e(s) are inte	ended to ach	nieve a top	of	0	ft from s	surface or a	1300	overlap.
Hole	Annular	1 Stage	1 Stage	Min	•	1 Stage	Drilling	Calc	Reg'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	· Cu Ft	. 9	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
12 1/4	0.3132	1350	2381	1600	:	49	10.00	2032	3M	0.81
as Gradient us	sed for collap	se SF.								
Burst Frac Grad	ient(s) for Se	gment(s): A	, B, C, D = 0.8	33, b, c, d	All >	0.70, OK.	= # #= # # # # #	·	20 cm 0 cm	

7	casing in	side the	95/8		_	Design Fa	ctors	PROD	UCTION
Segment	#/ft	Gra	ade	Coupling	Joint	Collapse	Burst	Length	Weight
"A"	26.00	L 8	30	LT&C	2.09	1.4	1.61	8,835	229,710
"B"	26.00	8 74 L 8	80	LT&C	4.04	1.19	1.61	815	21,190
w/8.4#/g mu	id, 30min Sfc (Csg Test psig: 9	971 .	name men ng pin 1966 ng papahanan ng trong		W V U.S	Totals:	9,650	250,900
В	Segme	ent Design	Factors	would be:	35.41	1.32	if it were a	vertical we	ellbore.
No Dile	Hole Plar	anad	MTD	Max VTD	Csg VD	Curve KOP	Dogleg°	Severity ^o .	MEOC
INO PIIO	i noie riai	ineu	9650	9390	9390	8835	90	10	9755
The ce	ment volun	ne(s) are inte	ended to ac	hieve a top of	4285	ft from s	urface or a	500	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-Cpl
8 3/4	0.1503	look 😼	0 ·	820	•	8.40	2424	3M	0.55

4 1/2	Liner	w/top @	8750		_	<u>Design I</u>	<u>Factors</u>	LII	NER
Segment	#/ft	Gı	rade	Coupling	Joint	Collapse	Burst	Length •	Weight
"A" .	11.60	L	80	LT&C	2.44	1.28	1.73	1,005	11,658
"B"	11.60	L	80	LT&C	4.48	1.41	1.73	4,076	47,282
w/8.4#/g mu	ıd, 30min Sfc (Osg Test psig:	1,344			•	Totals:	5,081	58,940
The co	ement volun	ne(s) are int	tended to act	nieve a top of	8750	ft from su	rface or a	900	- ove rlap [⊆]
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Reg'd	Min Dist
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE	Hole-Cplg
6	0.0859	330	403	363	11	9.20			0.50