Form 3160-5 (August 2007)	UNITED STATE EPARTMENT OF THE I	NTERIOR	•		OMB N	APPROVED 10. 1004-0135
APR 1 1 2011 SUNDRY Do not use the	NOTICES AND REPO is form for proposals to ll. Use form 3160-3 (AP	RTS ON WELL drill or to re-en D) for such prop	.S ter an oosals.	Hobbs	5. Lease Serial No. NMNM12006 6. If Indian, Allottee	or Tribe Name
	IPLICATE - Other instruc				7. If Unit or CA/Agre	ement, Name and/or No.
1. Type of Well ☐ Gas Well ☐ G	her /	/			8. Well Name and No. PIPELINE DEEP	UNIT FEDERAL 001
Name of Operator CIMAREX ENERGY CO. OF	Contact: COLORAD@ail: nkrueger@	NATALIE E KRU Ocimarex.com	EGER		9. API Well No. 30-025-24470	
3a. Address 600 N. MARIENFELD ST., S' MIDLAND, TX 79701	TE. 600	3b. Phone No. (in Ph: 432-620-1 Fx: 432-620-1	936		10. Field and Pool, or DELAWARE	Exploratory
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description	n)			11. County or Parish,	and State
Sec 17 T19S R34E NWSE 1	980FSL 1650FEL				LEA COUNTY,	NM
12. CHECK APP	ROPRIATE BOX(ES) TO	O INDICATE NA	TURE OF 1	NOTICE, RE	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION	TYPE OF ACTION					
Notice of Intent	☐ Acidize	□ Deepen		□ Producti	on (Start/Resume)	☐ Water Shut-Off
Subsequent Report	Alter Casing	☐ Fracture	Treat	□ Reclama	tion	☐ Well Integrity
_	Casing Repair	□ New Co		□ Recomp		Other
Final Abandonment Notice	Change Plans	Plug and		_	rily Abandon	
12 0	Convert to Injection	Plug Bac		□ Water D		
13. Describe Proposed or Completed Op If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involved testing has been completed. Final A determined that the site is ready for it	rk will be performed or provide loperations. If the operation respondent Notices shall be file	the Bond No. on file	with BLM/BLA	Required sub	rtical depths of all pertin	nent markers and zones. filed within 30 days
Per NMOCD Order SWD-125 by performing the following or	5, Cimarex proposes to co perations:	onvert the Pipelin	e Deep Unit	Federal No.	1 to SWD	
GL: 3757? KB: 3776? TD DRILLER: 13551? PBTD: 13335? SURF CSG:: 11.75 INCH O INTER CSG:: 8.625 INCH O	D 42#/FT H-40 @ 447? Cl D 32#/FT S80/J55 @ 535	2? Cmtd W/500 9	S OF A	PPROVA	APPRO	VED
INTER CSG : 8.625 INCH OD 32#/FT S80/J55 @ 5352? Cmtd W/500 SX. (CIRC) PROD CSG : 5.5 INCH 17#/20# N80/S95 @13542? Cmtd W/875 SX (TOC @ 10080?) PACKER : 5.5 INCH x 2.875 INCH FB1 RETAINER PRODUCTION PKR @ 13141 JUNK : 10? TAIL 2.875 INCH CUT OFF W/ SWAB BAR AND ~50? SWAB LINE IN TAILPIPE APR 5 2011						
BLM To	Witness Bl	ugs & TA	195	· \	6P. 1. 7	MANAGEMENT
14. Thereby certify that the foregoing is	true and correct. Electronic Submission #1 For CIMAREX ENEI	02746 verified by RGY CO. OF COL	the BLM Well DRADO, sent	l Information t to the Hobb	SUSTANCARI SRAD F	IELD OFFICE
Name (Printed/Typed) NATALIE	E KRUEGER	Title	REGULA	ATORY		
Signature (Electronic S	ubmission)	Date	02/17/20	011		
	THIS SPACE FO	R FEDERAL O	R STATE C	OFFICE US	<u> </u>	
Approved By OB TO	and St	Tit	e			Data
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conduct the applicant the appli	itable title to those rights in the	not warrant or	- 	· · · · · · · · · · · · · · · · · · ·	£	Date
Fitle 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s	U.S.C. Section 1212 make it a	crime for any person	knowingly and	willfully to mal	ce to any department or	agency of the United

Additional data for EC transaction #102746 that would not fit on the form

32. Additional remarks, continued

TUBING: 2.875 INCH L-80 (527 JOINTS). EOT @ 13148? MORROW PERFS: 13456?-60?, 13302?-19?, 13292?-98? CIBP: 13355? W/ 20? CMNT

SEE ATTACHED FOR CONDITIONS OF APPROVAL

- 1. PRIOR TO WORK, NOTIFY BLM OF OPERATIONS. OPEN BRADENHEAD VALVES AND CHECK FOR FLOW. MIRU PULLING UNIT. PERFORM PRE-JOB SAFETY MEETING. ND WELLHEAD NU BOPS. SOFT KILL WELL IF NECESSARY.
- 2. RELEASE 5.5 INCH PROD PKR @ 13141?. TOOH W/ 5.5 INCH PROD PKR & 2.875 INCH TUBING. STAND TUBING. IF PACKER WILL NOT UNSET, RU WIRELINE AND RIH WITH CHEMICAL CUTTER AND CUT TUBING ABOVE PACKER, POOH.
- 3. RU WIRELINE, RIH WITH GAUGE RING & JB TO 13200? (OR TUBING STUB). POOH. MU 5.5 INCH CIBP ON 2-3/8 INCH TUBING, RIH AND SET @ 13200? (OR ABOVE TUBING STUB). SPÓT 330? CMNT ON TOP OF PLUG. TOOH.
- 4. MU CASING JACKS AND CASING EQUIPMENT. REMOVE CSG SLIPS. PICK UP ON CSG AND ESTIMATE FREEPOINT. IF FREEPOINT IS ~10,000?, MU JET CUTTER ON WIRELINE. PU AND ATTEMPT TO CUT CASING AT 10,000?. RD WIRELINE. ATTEMPT TO WORK FREE. IF CASING PULLS, CONTINUE TO POOH, LD CASING AND PROCEED.

 (a) IF CASING DOESN?T PULL, RD CASING JACKS AND PROCEED WITH CEMENT PLUGS. WE WILL ATTEMPT TO PULL CASING LATER FROM 7000? (b) RIH WITH TUBING AND SPOT PLUG FROM 9950-10780? WITH PRODUCTION STRING. POOH, STAND 8000? OF

TÚBING.

(c) TAG PLUG. PERF @ 8000? AND SQUEEZE (WITH PRODUCTION STRING) 200? OF CEMENT SO TOC IS 7800?PERF PER OCD REQUIREMENTS (SEE PROPOSED WELL BORE SKETCH).

(d) MU JET CUTTER AND CUT CASING @ 7000?. RU CASING CREW (CASING JACK IF NEEDED) AND ATTEMPT TO WORK PIPE FREE. POOH AND LD CASING. SEND FOR INSPECTION/SALVAGE. RD CASING EQUIPMENT.

(e) RU 2.875 INCH WORKSTRING, SPOT 200? OF CEMENT ACROSS CASING STUB, 100? BELOW AND 100? ABOVE (DO NOT CET CEMENT APOVE 6000? ONE OF THE INTECTION INTERVALS IS 6840.6805?). BOOM AND LD THRING NOT GET CEMENT ABOVE 6900?, ONE OF THE INJECTION INTERVALS IS 6840-6895?). POOH AND LD TUBING

- 5. DELIVER 6010? 5.5 INCH J55 CASING, CVD. RIH W/ 5.5 INCH FORMATION PACKER SHOE AND 5.5 INCH CSG. SET 5.5 INCH FORMATION PACKER SHOE AT ~6010?.
- 6. RU CEMENT CREW AND CEMENT 5.5 INCH CSG TO SURFACE. RD CASING AND CMT CREW.
- 7. RU WIRELINE, AND RUN CBL FOR NEW STRING. RD WIRELINE.
- 8. RIH W/ 4-3/4 INCH BIT AND 6 DC?S ON 2.875 INCH TUBING AND DRILL OUT CEMENT IN SHOE. CONTINUE IN HOLE TO PBTD 6900?. NOTE FILL AND CLEAN OUT. SPOT 1500 GALS 7.5% ACID ACROSS OPEN HOLE INTERVAL FROM 6040? TO 6900?. TOOH W/ 2.875 INCH TUBING, LD BIT AND COLLARS, STAND TUBING. SHUT WELL IN UNTIL ACID IS SPENT.
- 9. SET FRAC TANK ON LOCATION AND HAVE WATER BROUGHT FROM PRODUCERS (LAGUNA 8, LAGUNA 10, AND PIPELINE 18-4). MU 5? INCH TREATING PACKER ON 2.875 INCH TUBING, RIH AND SET AT 5900? INJECT FIELD SALTWATER INTO FORMATION AT 2BPM, 4BPM, AND 6BPM AND NOTE THE INJECTION PRESSURES. THEN INJECT AT 1000# SURFACE FOR 30 MINUTES, RECORDING RATES. UNSET PACKER AND POOH, LD TUBING AND PACKER.
- 10. DELIVER 2.875 INCH IPC TUBING. MU 5.5 INCH IPC INJECTION PKR AND TEST IN HOLE. SET 5.5 INCH INJECTION PACKER @ ~5900? STING OUT AND CIRCULATE PACKER FLUID. LATCH BACK INTO PACKER.

5011

LAND MANAGEMENT SBAD FIELD OFFICE

11. PERFORM STEP RATE INJECTION TEST DOWN TUBING AND MIT TEST ON BACKSIDE. BEGIN SWD OPERATIONS.

Please see attached WBDs.

SEE ATTACHED FOR CONDITIONS OF APPROVAL



"Zeno Farris" <zfarris@cimarex.com> 03/04/2011 04:24 PM To <Wesley_Ingram@blm.gov>, <Christopher_Walls@blm.gov>, <edward_fernandez@blm.gov>

CC

bcc

Subject FW: Pipeline Deep Unit Federal #1

Ed, Chris, Wesley. Attached is statement regarding Delaware productivity for referenced SWD. Zeno

From: Tim Miller

Sent: Wednesday, October 06, 2010 8:17 AM

To: Chad McGehee; Zeno Farris

Subject: Pipeline Deep Unit Federal #1

Chad & Zeno,

The only productive Delaware sands in this area are the Lower Brushy Canyon sands and the only well that is productive from these sands is Chesapeake's Bobwhite 'SV' Federal #1 in 4-19S-34E which is 2 1/2 miles to the north. These lower Brushy Canyon sands are below 7,500' and we plan to inject in the Cherry Canyon Sands and an Upper Brushy Canyon Sands and Dolomite from 6,000-6,900'. The Bobwhite well is perforated from 7,809-7,819' and has produced 64,611 BO + 32 MMCFG + 23,597 BW from 3/1996-5/2010. Our Pipeline well had no sample shows in the Cherry Canyon or the Brushy Canyon intervals, and the Bobwhite is up dip from our Pipeline on a slight structural nose which helps to enhance production in the Delaware, so I feel that we are not affecting any possible future production in the area adjacent to the Pipeline well.

Tim

GIMARS A

H. Tim Miller Cimarex Energy Co.

Senior Geologist-Permian New Mex

(432) 571-7894 Work (432) 230-5928 Mobile htmilier @cimarex.com 600 N. Marienfeld St. Midland, TX 79701

Sundry to Convert Pipeline Deep Unit No. 1 SWD Cimarex Energy Co. of Colorado Unit J, Section 17 T19S R34E, Eddy County, NM

9 Casing Plan:

String	Hole Size		Depti	'n	Casin	g OD	Weight	Thread	Collar	Grade
Surface	16"	0'	to	447'	Existing	11¾"	42#	8-R	STC	H-40
Intermediate	11"	0'	to	5352	Existing	8%"	32#	8-R	STC	S-80/J-55
Production	7%"	0'	to	6010'	New	5½"	17#	8-R	LTC	J-55

10 Cementing:

Surface

Cemented with 440 sx Circ 50 sx

TOC Surface

Intermediate

Cemented with 500 sx Circ to surface

TOC Surface

Production

Lead: 475 sx 50/50 POZ C + 10% Bentonite + 5% Sodium Chloride (wt 11.8, yld 2.44)

Tail: 150 sx C (wt 14.8, yld 1.33) 25% Excess.

TOC Surface

Fresh water zones were protected by setting 11%" casing at 447' and cementing to surface. Hydrocarbon zones will be protected by setting 8%" casing at 5352' and cementing to surface and by setting 5%" casing above injection zone at 6010' and cementing to surface.

Collapse Factor	Burst Factor	Tension Factor
1.125	1.125	1.6

Cimarex Energy Co. of Colorado Conditions of Approval

NM-12006: Pipeline Deep Unit Fed #1 API: 30-025-24470 Lea County, New Mexico

RE: Convert well to SWD per NMOCD SWD-1255

A. General Requirements

See Attached: Recompletions/Plug Back of Federal Wells - Conditions of Approval

- 1. Surface disturbance beyond the existing pad must have prior approval.
- 2. Closed loop system required.
- 3. See attached general COA for Recompletions/Plug Back of Federal Wells

3000 (3M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.

B. Plugging & Abandonment Requirements of lower formations

- 1. Procedure step No. 1 OK
- 2. <u>If unable to remove</u> packer at 13,141' <u>Operator is to contact BLM and submit a procedure to BLM to properly plug off Morrow perfs (i.e. CIBP must be set from 50' to 100' above top perforation of Morrow)</u>
- 3. Procedure step No. 3 (CIBP must be set from 50' to 100' above top perforation of Morrow) and spot as plan 330 sacks cement on top of CIBP
- 4. Procedure step No. 4 is OK
- 5. Procedure step No. 4a is OK
- 6. Procedure step No. 4b is OK; <u>MUST TAG top of Cement plug at 50' above cut or attempted cut</u>
- 7. Procedure step No. 4c MUST Perf at 8025' and squeeze as plan
- 8. Procedure step No. 4d is OK; If Casing will not cut and release contact BLM to determine next step.
- 9. Procedure step No. 4e is OK; <u>MUST verify on top of cement by Tagging; Must tag TOC at 50' above cut or attempted cut</u>

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C. Before Running 5-1/2 casing and completing as a SWD

- 1. The 11-3/4 inch surface casing is set at 447 feet with cement circulated to surface.
- 2. The 8-5/8 inch intermediate casing is set at 5350 feet with cement circulated 0 sacks to surface. Our records indicated insufficient cement and top of cement is unknown.
- 3. Run CBL to determine top of cement, and submit a copy to the BLM. If TOC is not to surface, remedial cement work will be required. Submit a Sundry for approval of remedial cement work.

A CIT is to be performed on 8-5/8 inch intermediate casing per Onshore Oil and Gas Order 2.III.B.1.h. Test pressure to be 1500 psi. *If remedial cement work is done on 8-5/8 inch casing contact BLM to determine and get approval on adequate test pressure.

- 4. Procedure step No. 5 is OK
- 5. Procedure No. 6 the minimum required fill of cement behind the 5-1/2 inch production casing is:
 - ⊠ Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 6. Procedure step No. 7 is OK

A CIT is to be performed on 5-1/2 inch production casing per Onshore Oil and Gas Order 2.III.B.1.h. Prior to drilling out cement shoe. Test pressure to be 1500 psi.

- 7. <u>STOP Per Administrative Order SWD-1255</u>; Cimarex Energy to provide proof that the Mescalero Unit Federal well #2 (30-025-02388) has been re-entered and replugged
- 8. Procedure step No. 8 is OK
- 9. Procedure step No. 9 and 10 is OK
- 10. Procedure step No. 11

Conduct a Mechanical Integrity Test of at least 500psig for 30 minutes on the injection tbg/csg annulus of the well. The test pressure should have at least 200psig differential with tubing pressure but no more than casing test pressure as described by Onshore Order 2.III.B.1.h. (the tubing pressure may need to be reduced). Document the MIT test on a calibrated recording chart registering 25 to 85 per cent of its full range. Notify Paul R. Swartz at 575.200.7902 at least 24 hours before the test. If there is no response, notify the BLM on call drilling phone, 575.361.2822. Submit the recorded MIT chart with a subsequent Sundry Form 3160-005 relating the MIT activity. Include the original and three copies of the recorded chart and Sundry

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A wellhead bradenhead test will be conducted during the MIT. Each casing annulus is be open to the atmosphere for observation before and during the test. Display tubing-casing annular pressure onsite. A bourdon tube gauge that will register tubing pressure within 25 to 85 per cent of its full range is acceptable. Should the casing/tubing annulus exhibit communication with injection pressure, a tubing or packer failure probable. Monitor the annulus. The use of automation equipment that will monitor and alarm is encouraged for any well, and necessary when tubing or casing competence is questionable. Maintain the annulus full of packer fluid and be able to verify that fluid level to a BLM inspector at any time. Report a significant (5bbl/mth) loss of packer fluid. Should a tubing or casing failure be detected, cease injection and reduce the annular pressure to 0psig. Notify Paul R. Swartz at 575.200.7902 within 24 hours. If there is no response, notify the BLM on call drilling phone, 575.361.2822.

Also submit to this office on a notice of intent (Sundry Form 3160-5) for approval by BLM and NMOCD a plan of correction and the anticipated date of repair. After the repairs submit a subsequent report (Sundry Form 3160-5) describing the repair(s) and a BLM witnessed Mechanical Integrity Test chart. Include the date(s) of the well work, descriptions of tubing, on/off equipment, profile nipple installation, and packer setting depth.

- 11. Subsequent sundry with well test and wellbore schematic required and completion report required
- 12. Operator to begin plugging back procedures within 90 days of receiving this approval.

EGF 040411

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office 620 East Greene Street Carlsbad, New Mexico 88220 575-234-5972

For Recompletions/Plug Back of Federal Wells Conditions of Approval

Failure to comply with the following Conditions of Approval may result in a Notice of Incidents of Noncompliance (INC) in accordance with 43 CFR 3163.1.

1. Plugging Back operations shall commence within <u>ninety (90)</u> days from the approval date of this Notice of Intent to Abandon.

If you are unable to plug back the well by the 90th day provide this office, prior to the 90th day, with the reason for not meeting the deadline and a date when we can expect the well to be plugged. Failure to do so will result in enforcement action.

The rig used for the plugging procedure (Plug Back) cannot be released and moved off without the prior approval of the authorized officer. Failure to do so may result in enforcement action.

- 2. <u>Notification:</u> Contact the appropriate BLM office at least 24 hours prior to the commencing of any plugging back operations. For wells in Chaves and Roosevelt County, call 575-627-0272; Eddy County, call 575-361-2822; Lea County, call 575-393-3612.
- 3. <u>Blowout Preventers</u>: **3000 (3M)** BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above precharge. The pre-charge test shall follow requirements in Onshore Order #2.
- 4. <u>Mud Requirement:</u> Mud shall be placed between all plugs. Minimum consistency of plugging mud shall be obtained by mixing at the rate of 25 sacks (50 pounds each) of gel per 100 barrels of **brine** water. Minimum nine (9) pounds per gallon.
- 5. Cement Requirement: Sufficient cement shall be used to bring any required plug to the specified depth and length. Any given cement volumes on the proposed plugging procedure are merely estimates and are not final. Unless specific approval is received, no plug except the surface plug shall be less than 25 sacks of cement. Any plug that requires a tag will have a minimum WOC time of 4 hours.

In lieu of a cement plug across perforations in a cased hole (not for any other plugs), a bridge plug set within 50 feet to 100 feet above the perforations shall be capped with 25 sacks of cement. If a bailer is used to cap this plug, 35 feet of cement shall be sufficient. Before pumping or bailing cement on top of CIBP, tag will be required to verify depth. Based on depth, a tag of the cement may be deemed necessary.

Unless otherwise specified in the approved procedure, the cement plug shall consist of either Neat Class "C", for up to 7,500 feet of depth or Neat Class "H", for deeper than 7,500 feet plugs.

8. <u>Trash</u>: All trash, junk and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

EGF 040411

CURRENT WELLBORE KB: 3776' (19') GL: 3757' 11 3/4" 42# H40 @ 447' (15" hole) Cmt'd w/400 sx, circ 50 sx 8 5/8" 32# S80/J55 @ 5352' (11" hole) Cmt'd w/500 sx, TOC @ surface TOC 10080' (TS) Junk in hole: 8/3/07 10' tail 2 7/8" cut off w/swab bar & ~ 50' swab line in tailpipe

Cimarex Energy Co. of Colorado

Pipeline Deep Unit Federal #1 1980' FSL & 1650' FEL Sec 17, T19S R34E Lea County, NM API 30-025-24470

From 8/13/07 Report

Tubing hung off in WH w/2 7/8" BO2 adapter, screwed on WH, seal assembly 2.35" ID

Tubing Detail (from 8/13/07 report)

KB Correction

19

Quantity	Description	Length	Setting Depth
	2 7/8" sub (8', 10')	18.00	37.00
279	2 7/8" L80 8rd EUE	5041.00	5078.00
	X-over, 8rd to DSS HT	1.00	5079.00
248	2 7/8" DSS HT 6.5#	8026.00	13105.00
	X-over & 2.31" 'F' nipple	0.00	13105.00
1	2 7/8" L80 8rd EUE	32.19	13137.19
	5 1/2" MD E 22 anchor seal assembly	0.85	13138.04
	FB1 Retainer production pkr	3.10	13141.14
	4" millout ext	5.91	13147.05
	4" X-over to 2 7/8" EUE	0.68	13147.73
	2 7/8" tbg, jet cut on btm	20.00	13167.73
	Total Tubing String Length	13148.73	

Morrow Perfs:

13292'-13298' (24 holes) 13302'-13319' (68 holes)

CIBP 13355' w/20' cmt cap Lwr Morrow

13456'-13460' (10 holes) shot in acid

PBTD: 13335' TD: 13551'

L. Luig 11/5/09

5 1/2" 17#/20# N80/S95 @ 13542' (7 7/8" hole)

Cmt'd w/875 sx, TOC 10080' (TS)

