Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIORBUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB NO 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

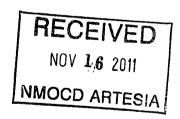
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

NM-04827-B 6. If Indian, Allottee or Tribe Name

Lease	Serial	Ν

·5.

abandoned well. Use Fort	m 3160-3 (APD) for such proposals.	
SUBMIT IN TRIPLICATE -	Other instructions on reverse side	7. If Unit or CA/Agreement, Name and/or No
1. Type of Well X Oil Well Gas Well Other 2. Name of Operator OXY USA WTP LP (Attn: David Stewart) 3a. Address P.O. Box 50250, Midland, TX 79710 4. Location of Well (Footage, Sec., T., R., M., or Survey of B, Sec. 1, T21S, R23E 990' FNL 1855' FEL	3b Phone No (<i>include area code</i>) 432-685-5717	8. Well Name and No MOC Federal #1 9. API Well No. 30-015-27928 10 Field and Pool, or Exploratory Area South Dagger Draw/ Upper Pen Associate 11. County or Parish, State
		Eddy NM
12. CHECK APPROPRIATE	BOX(ES) TO INDICATE NATURE OF NOTICE, R	EPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	ON
X Notice of Intent Subsequent Report Final Abandonment Notice	Alter Casing Fracture Treat Reclar Casing Repair New Construction Recon Change Plans Plug and Abandon Tempor	
If the proposal is to deepen directionally or recompleted the Bond under which the work will be perfollowing completion of the involved operations. It testing has been completed Final Abandonment I determined that the final site is ready for final insperior.	ly state all pertinent details, including estimated starting date of any plete horizontally, give subsurface locations and measured and true rformed or provide the Bond No on file with BLM/BIA. Requir If the operation results in a multiple completion or recompletion in Notices shall be filed only after all requirements, including reclaration) eview for approval the attached coil tubing	evertical depths of all pertinent markers and zones, ed subsequent reports shall be filed within 30 days in a new interval, a Form 3160-4 shall be filed once nation, have been completed, and the operator has



Please see attached proposed word procedure, and WBD.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Accepted for record NMOCD

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)	Title	
Jereme Robinson/ jereme_robinson@oxy.com	Sr. Regulato	ry Analyst
asti	Date 10/13/2011	APPROVED
THIS SPACE FOR FEDERA	AL OR STATE OFFICE US	E
Approved by	Title	NOV 1 4 2011
Conditions of approval, if any, are attached. Approval of this notice does not warrant certify that the applicant holds legal or equitable title to those rights in the subject leads which would entitle the applicant to conduct operations thereon		mal
Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for States any false, fictitious or fraudulent statements or representations as to any matter	any person knowingly and willful within its jurisdiction.	ly to make to 积水 department Cage not Ref the United

MOC FEDERAL # 001 API#: 30-015-27928 Lease #: NM-04827-B

LOCATION: Sec 1, T21S-R23E

SURFACE HOLE: LOCATION: 990' FNL & 1855' FEL EDDY COUNTY, NEW MEXICO

PROJECT: Coil Tubing Stimulation - Upper Penn formation

OBJECTIVE: The well was drilled and completed with 7" csg with TOC at surface in July 1994. Upper Penn formation was perforated/acidize and put on production. The well is a Rod Pump producer well. This well was select for the Coil Tubing Stimulation pilot. In addition to the economic opportunity, this project is expected to incorporate an innovative stimulation technique to improve the base production of all the wells in the North New Mexico / Terrell. Successful results would extend this technology application further in the Upper Penn, Yeso, Wolfcamp and 1st Bone Spring, which have been extensively developed with vertical wells.

WELL TYPE: PRODUCER

CURRENT PRODUCTION: 0.1 BO, 0 BW, 10 MSCFD (HOLE IN TUBING)

ANTICIPATED PRODUCTION: 39 BO, 565 BW, 558 MSCFD

CURRENT LIFT METHOD: BEAM PUMP

NEW LIFT METHOD: BEAM PUMP

WELL INFORMATION: All Depths Are Measured Depths

Spud Date: June 19, 1994

TD: 8050' MD

PLUGBACK: 7713' MD

KB: 17'

PROPOSED UPPER PENN PERFORATIONS: Jet out four (4) - 7/8" perforations

at 7565' w/ 90 deg phasing. Acid Stimulate perforations w/ 15%

HCI.

CASING DETAIL:

SIZE (IN)	Weight (LB/FT)	Grade	Burst Press (psi)	Depth (FT)	Bit Size (INCH)	CMT (SX)	TOC (FT)	TECHNIQUE (TS, CBL) CIRCULATED, CALCULATED)
9-5/8"	36#	K-55	•	1163'	12-1/4"	1100	Ó T	Circulated
7"	23# & 26#	K-55		8048'	,8-3/4"	1160	10	Çirculated

TUBING DETAIL (current):

			4.63	<u> </u>		
Part Type	Name of Component	,≀nśîtåll,Datë∵	Total Quantity	Total Length	Top Depth	Bottom Depth
Polished Rod	1.500 (1.1/2) n.) C x 26 w/Polished Rod Liner	.01/12/2011	1 .	. 26	. 13 _	39 ″ ـ
Rod .	*0.875 (7/8 in.) D90 x 25 Rod - GUIDED	01/12/2011	42	1050	239	1289
Rod	1.000 (1 in) N-97 (HS) x 25 Rod - N/A	01/12/2011	. 80	2000	:1289	, 3289
Rod	1 240 (1 1/4 in.) FG x 37.5 Rod - N/A	01/12/2011	116	4350	3289	7639
Rod Pump (Insért)	Rod Pump (Insert) (NON-SERIALIZED) - 25- 175 RHBC-26-4 (Bore = 1.75)	01/12/2011	. 1	26	7è51	7677
Rod Sub (Enter Length) 3	Rod Sub(s) FIBERGLASS	01/12/2011	.1	. 9	7642	7651
Rod Sub (Enter Length)	Rod Šūb(s)FIBERGLASS	01/12/2011 -	· 1 .	3 .;	7639	7642
Sınker Bar	1.250 (1.1/4 in:) K x 25 Sinker Bar - N/A	01/12/2011	8	200	39	239 ,
Mud Anchor	Bull Plug Mud Anchor 2.875" - N/A	06/02/2010	1 .	32	7683 .	7715
Perforated Tubing Sub	Perforated Tubing Sub 2.875" - N/A	06/02/2010	. 1	4 .	7679	7683
Seat Nipple / Shoe	Seat Nipple - Standard (2 875") Cup Type - N/A	06/02/2010	1	1	7678	7679
Tubing - OD 2875	L-80, 2.875 OD/ 6.50# T&C External Upset 2.441 ID 2.347 Drift - N/A	06/02/2010	235	7441	. 13	7454
Tubing - OD 2 875	L-80 T-K 99,2.875 OD/ 6 50# T&C External Upset 2 441 ID 2.347 Drift - N/A	06/02/2010	. 7	219 -	. 7456	7678 -
Tubing Anchor/Catcher	≟Tubing Anchor/Catcher 7 000" - N/A	.06/02/2010	1 .	2	·7519	7521
Tubing Sub OD 2.875.	L-80 2 875 OD/ 6.50# T&C External Upset 2.441 ID-2 347 Drift - N/A	06/02/2010	1_	.2 .	7454 "	7,456

DEVIATION SURVEY:

4 74 5 24	Sp. C.
MD	Degree
160	*
375 575 821 1039	0.75
575	0.75
821	0.75
1039	្នា
1,163	0.75
1649	0.75
2149	0.25
2554 3026	0.25
3026	0.5

	, i
MD	Degree
3524	0.5
3996	0.75
4116	. 1, .
4248	1.75
4375	2.5
4498	2.75
4593	3.25
4688	3.25
4782	3.5
4876	4

MD .	Degree
4939	. 4
5001	4.
5064	4
5136	4.25
5194	4
5194 5267	3.75
5350	4
5443	4.
5536	4
5647	3.75

.⊬ MD	Degree
5728	3.5
5853	3.5
5853	3.75
6044	3.5
6170	3.25
6327	3
6170 6327 6826	1.75
7330	2.75 1.75
7649 8050	1.75
8050	1.5

ANY KNOWN CASING PROBLEMS: None

OPERATIONAL COMMENTS:

- Use 2% KCl water as completion if necessary. Use real KCl, not liquid substitutes.
- Oxy will provide 1 tank with 4000 gallons filtered to 10 microns or city water. These amount is required to jet out the four laterals.
- Oxy will provide 400 glns of 15% HCL plus additives to stimulate perforations (Acid volume subject to change).

RECOMMENDED PROCEDURE:

NOTE: PLEASE CALL PC'S (JERRY HARRISON OR VAN BARTON) AT (575) 628-4110/4111 AND THE PUMPER FOR THE RUN (ASK PC FOR CONTACT INFORMATION, IF NECESSARY) TO INFORM THEM OF YOUR WORK ON THE WELL 48 HOURS PRIOR TO THE JOB, OR AS SOON AS POSSIBLE, IF THAT TIME IS PASSED. ALSO, CONTACT BLM-CARLSBAD 24 HOURS PRIOR TO WORK.

Well preparation

- 1. MIRU PU.
- 2. Ensure the well is dead. ND WH. NU BOP.
- 3. POOH LD Rod string and Rod Pump.
- 4. POOH LD 2-7/8" tubing. Scan tubing.
- 5. Clean tubing to remove scale and/or paraffin.
- 6. RIH bit and scraper on 2-7/8" working string to 7,700'. POOH.
- 7. Run the <u>Deflecting Shoe</u> in the hole with 12 jts of clean 2-3/8" tubing. Continue run with clean 2-7/8" tubing to just below 7565'.
- 8. RU wireline unit. Run a GR/CCL log to correlate shoe to the log and adjust to 7565'. RD wireline unit.

Rig up coiled tubing unit

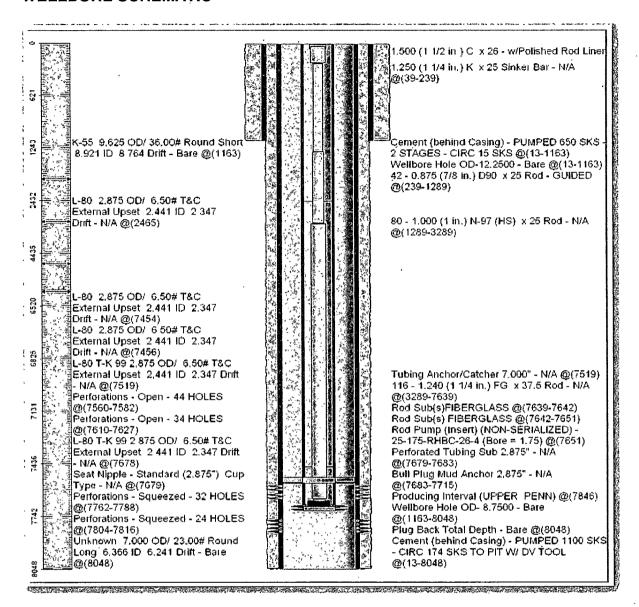
Jet 4 perforation holes at 0°, 90°, 180° and 270° in Upper Penn formation at 7.565'.

- 9. Run mud motor with perforating mill on coil tubing inside the 2-7/8" tubing. Mill a perforation hole in 7" casing at 7565; using a 7/8" mill on a flex shaft.
- 10. Pull out mud motor and attach jetting hose and nozzle and run back in.
- 11. Jet out perforation for effective acid penetration of up to 300' from the wellbore at 7565.
- 12. Acidize the perforation. Stimulate w/ approximately 100 glns of 15% HCL with Fercheck plus 0.2% corrosion inhibitor, 0.2% surfactant and 0.4% iron control. Displace with 2% KCL. (Acid volume subject to change).
- 13. Pull out the jetting hose and nozzle
- 14. Rotate tubing 90 degrees (90°)
- 15. Repeat steps 11, 12, 13, 14 and 15
- 16. Rotate tubing 90 degrees (180°)
- 17. Repeat steps 11, 12, 13, 14 and 15
- 18. Rotate tubing 90 degrees (270°)
- 19. Repeat steps 11, 12, 13, 14 and 15
- 20. POH 2-7/8" tubing and LD the deflecting shoe.
- 21. RDMO Coil Tubing Unit.

Permanent Completion

- 22. RIH with 2-7/8" tubing and Seating Nipple (same as original).
- 23. Land the TAC at 7519', which should land the Seating Nipple at roughly 7678'.
- 24. RIH with Rod pump and Sucker rods. Rod Pump design will be provided by Mike McNeely's group.
- 25. Land and space out the pump. Ensure that the well pumps up properly.
- 26. RDMO PU. Install pumping unit installation and startup.
- 27. Turn Over To Production.

WELLBORE SCHEMATIC



OCCIDENTAL OIL AND GAS CORPORATION

WELLBORE DIAGRAM AND INFORMATION

Well Name: MOC Federal #001 Field: Indian Basin Date: 20-Sep-2011 Location: _ 990' FNL & 1855' FEL Sec. 1 T21S-R23E

Eddy County **County:** State: New Mexico

Hole size 12 1/4" d9 5/8" 36# K-55 @ 1163' w/ 650 sx circulated to SFC

6/19/94 Spud: KB: 17' TD: 8050' MD PBTD: 7713' MD API #: 30-015-27928

	CAS	ING DE	TAIL	
Size	Weight	Grade	Depth	Cement
9 5/8"	36#	K-55	Surf-1163'	650 s x
7"	23# & 26#	K55	Surf-8048'	1160 s x
	TUB	ING DE	FAIL	
Size	Weight	Grade	Depth '	Detail
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	 		<u> </u>	
	 			
	1			
	R	OD DETA	NIL	
"Sıze	Weight	Grade	Depth	Detail
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	 		1	
	PU	MP DET	AIL	
lew Rod Pu	mp Design			•

Perforations – Open – 44 holes 7560'-7582'

Perforations - Proposed - Penn Upper (Cisco) 7565' (4 SPF)

Perforations - Open - 34 holes

7610'-7627'

Perforations - Squeezed - 32 holes 7762'-7788'

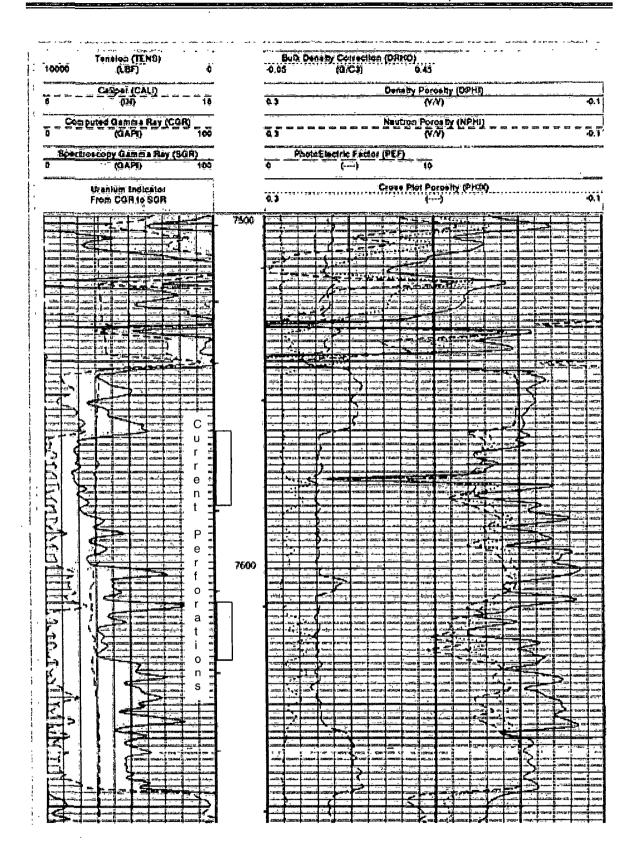
Perforations - Squeezed - 24 holes 7804'-7816'

7" 23# & 26# K55 @ 8048' w/ 1100 sx circulated to SFC

TD @ 8050' MD

Hole size: 8 3/4"

> Created By T. Russell Revised Date. 9/21/2011



MOC Federal 1 OXY USA WTP LP November 14, 2011 Conditions of Approval

- 1. Surface disturbance beyond the originally approved pad must have prior approval.
- 2. Closed loop system required.
- 3. Operator to have H2S monitoring equipment on location.
- 4. A minimum of a 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.
- 5. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over 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.
- 6. Operator to submit a subsequent sundry with details of work performed including a new well test.

WWI 111411