Form 3160-4
(March 2012)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.: NM560355

1a. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr.,
Other: _____

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.:

2 Name of Operator: OXY USA WTP LP

8. Lease Name and Well No.: SAMANTHA 31-6 FEDERAL COM #1H

3. Address: PO BOX 4294, HOUSTON, TX 77210

3a. Phone No. *(include area code)*: 713-513-6640

9. API Well No.: 30-015-40050

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**

At surface 990' FSL & 450' FWL

At top prod interval reported below 330' FSL & 450' FWL

At total depth

RECEIVED
AUG 09 2012
NMOCD ARTESIA

10. Field and Pool or Exploratory: HACKBERRY, BONE SPRING, NORTH

11. Sec., T., R., M., on Block and Survey or Area: SEC 31, T18S R31E

12. County or Parish: EDDY COUNTY, NM

13. State: NM

14. Date Spudded: 04/24/2012

15. Date T.D. Reached: 05/29/2012

16. Date Completed: ☐ D & A ☑ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*: 3531.6'

18. Total Depth: MD 14384' TVD 8768'

19. Plug Back T.D.: MD 14290' TVD

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
TRIPLE COMBO LOGS, CEMENT BOND LOG

22. Was well cored? ☑ No ☐ Yes (Submit analysis)
Was DST run? ☑ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☑ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.5"	13.375" H40	48#	0'	597'		720		SURFACE	
12.25"	9.625" J55	40#	0'	2170'		1070		SURFACE	
8.75"	5.5" L80	17#	0'	1438~~4~~72	6096	3~~55~~. 600		SURFACE	

24 Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	9750'	14250'	9075' - 14250'	0.39"	228	FLOWING
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
9075' - 14250'	1,751,886 GALS OF FRAC GEL, 19,003 GALS OF ACID, AND 1,986,010 LBS OF SAND

RECLAMATION
DUE 1-22-13

28 Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
7/22/12	7/22/12	24	→	415	750	304	40		FLOWING

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
	0	230	→	415	750	304	1807 228916	FLOWING

28a Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status
			→					

ACCEPTED FOR RECORD
AUG 5 2012
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

*(See instructions and spaces for additional data on page 2)

Complete 30 & 31 (& 4, 16, above)
Pg 2

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status

29. Disposition of Gas *(Solid, used for fuel, vented, etc.)*

FLARED, WITH INTENT TO BE SOLD LATER ON

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions. Contents, etc.	Name	Top Meas. Depth
				See Attached	

32 Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☑ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☑ Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name *(please print)* JENNIFER DUARTE Title REGULATORY ANALYST

Signature Jennifer Duarte Date 07/26/2012

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.

(Continued on page 3)

INSTRUCTIONS

GENERAL: This form is designed for submitting a complete and correct well completion/recompletion report and log on all types of wells on Federal and Indian leases to a Federal agency, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal office. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, and all types electric), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal laws and regulations. All attachments should be listed on this form, see item 33.
ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal office for specific instructions.
ITEM 17: Indicate which reported elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
ITEM 23: Show how reported top(s) of cement were determined, i.e. circulated (CIR), or calculated (CAL), or cement bond log (CBL), or temperature survey (TS).

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48 (d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. et seq.; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is to be used to evaluate the actual operations performed in the drilling, completing and testing of a well on a Federal or Indian lease.
ROUTINE USES: (1) Evaluate the equipment and procedures used during the drilling and completing/recompleting of a well. (2) The review of geologic zones and formation encountered during drilling. (3) Analyze future applications to drill in light of data obtained and methods used. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.
EFFECT OF NOT PROVIDING INFORMATION: Filing of this report and disclosure of the information is mandatory once a well drilled on a Federal or Indian lease is completed/recompleted.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling and completing/recompleting wells on Federal and Indian oil and gas leases.
This information will be used to analyze operations and to compare equipment and procedures actually used with those proposed and approved.
Response to this request is mandatory only if the operator elects to initiate drilling and completing/recompleting operations on an oil and gas lease.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

06/17/2012 – FRAC TRUCK AND TANKS BEGAN SET UP. BEGAN PERF & FRAC JOB.

06/17-22/2012 – PERF INTERVALS 9,075' – 14,250' (228 HOLES) AND FRAC WITH 1,751,886 GALS OF FRAC GEL, 19,003 GALS OF ACID, AND 1,986,010 LBS OF SAND WITH A 6 STAGE FRAC.

06/22/2012 – FRAC TRUCK & TANKS RDMO.

07/10/2012 – POST FRAC CLEANOUT RIG MIRU AND BEGAN CLEANOUT.

07/13/2012 – POST FRAC CLEANOUT COMPLETED TO PBTD AND RIG RDMO.

Formation Name	TVD
Rustler	523
Salado (top of Salt)	710
Tansill (base of salt)	1950
T Seven Rivers	2543
T Queen	3150
T. San Andrews	3815
T. Delaware	3993
T. Bone Spring Limestone	6048
T. BSPG1 Limestone	7268
T. BSPG1 Sand	7650
T. BSPG2 Limestone	7903
T. BSPG2 Sand	8553
TD	8819

Well:	Samantha 31-6 Fed Com 1-H
API:	30-015-40050
Surface Location	M-31-18S-31E Lot: 4 / 990 FSL & 450 FWL
Producing Method Code:	Flowing
Well Completion Data:	
Spud Date:	4/24/2012
TD DATE:	5/29/2012
RIG RELEASE DATE:	6/3/2012
Date Frac setup:	6/17/2012
Date Frac rigdown:	6/22/2012
Date post-frac cleanout started:	7/10/2012
Date post-frac cleanout finished:	7/13/2012
Ready Date (COMPLETED DATE):	7/13/2012
TD:	14,381'
PBTD:	14,290'
Perforations: (INTERVALS, SPF, SIZE)	Stage 1: 13,575' - 14,250' (6 SPF, 0.39", 38 holes) Stage 2: 12,265' - 13,350' (6 SPF, 0.39", 38 holes) Stage 3: 11,775' - 12,450' (6 SPF, 0.39", 38 holes) Stage 4: 10,875' - 11,550' (6 SPF, 0.39", 38 holes) Stage 5: 9,975' - 10,650' (6 SPF, 0.39", 38 holes) Stage 6: 9,075' - 9,750' (6 SPF, 0.39", 38 holes)
DHC, MC:	
Surface Casing - Hole Size:	17.5"
Surface Casing - Type & weight:	48#, H-40 STC
Surface Casing - Casing Size:	13.375"
Surface Casing - Depth Set:	597'
Surface Casing - Sacks Cement:	720 sx
Surface Casing - TOC:	SFC
Date & test data for Surface Casing:	4/29/12, 1250 psi
Inter Casing - Hole Size:	12.25"
Inter Casing - Type & weight:	40#, J-55 LTC
Inter Casing - Casing Size:	9.625"
Inter Casing - Depth Set:	2170'
Inter Casing - Sacks Cement:	1070
Inter Casing - TOC:	SFC
Date & test data for Intermediate Casing:	5/4/12, 2765 psi
Production Casing - Hole Size:	8.75"
Production Casing - Type & Weight:	17#, L-80 LTC
Production Casing - Casing Size:	5.5"
Production Casing - Depth Set:	14,381'
Production Casing - Sacks Cement:	3555 sx
Production Casing - TOC:	SFC
Date & test data for Production Casing:	6/10/12, 6500 psi
Tubing Size:	n/a
Tubing Depth:	n/a

Well Test Data:

Date New Oil:	7/22/2012
Test Date:	7/22/2012
Test Length:	24 hours
Tbg. Pressure:	-
Csg. Pressure:	230 psi
Choke Size:	32/64"
Oil:	415
Water:	304
Gas:	750
GAS - OIL RATIO	1807.228916
OIL GRAVITY - API (CORR)	40
Test Method:	Flowing
DISPOSITION OF GAS (SOLD, USED FOR FUEL, ETC)	Flared

Oper.: OXY USA WTP LP

Well: SAMANTHA 31-6 FED COM 1H

API # 30-015-40050

Loc 990' FSL 450' FWL SEC 31 T18S, R31E

County/State EDDY, NM

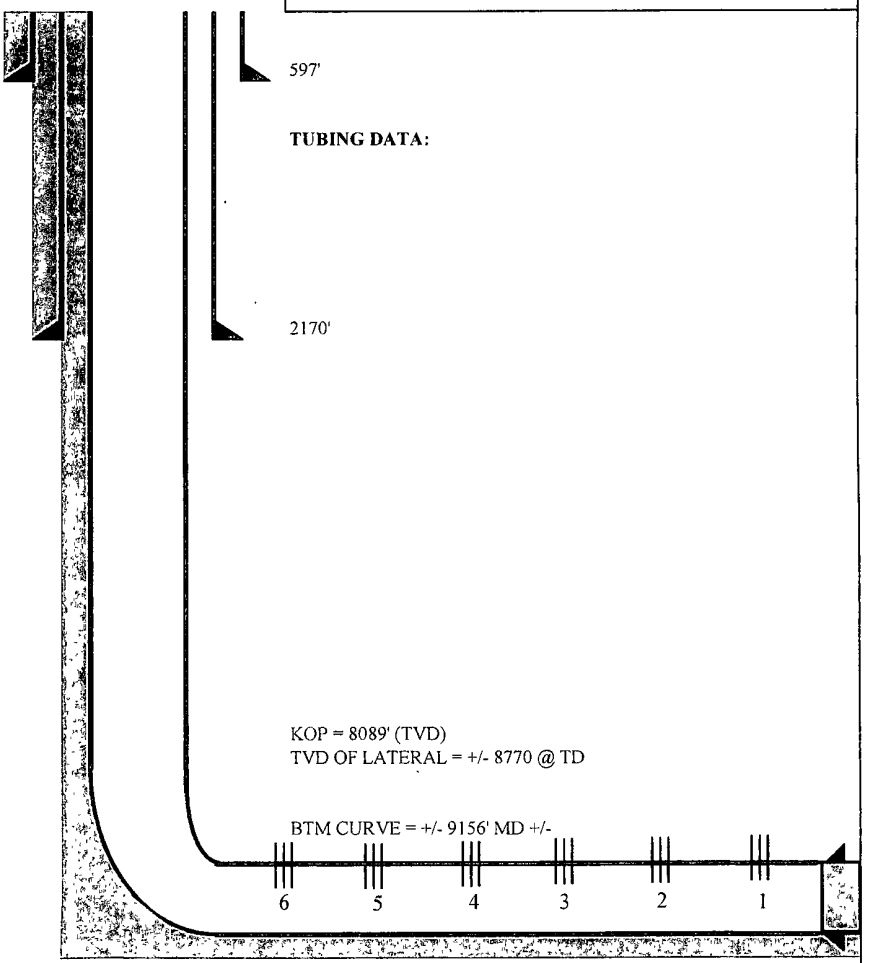
Spud Date 4/24/12

GL 3531 60' KB = 25' (ORIGINAL KB = 3556 60')

13.375" 48# H-40 STC CSG @ 597' W/ CMT CIRC TO SFC
(17 5" HOLE SIZE, 720 SX)
CIRCULATED 353 SX TO SFC

9.625" 40# J55 LTC CSG @ 2170' W/ CMT CIRC TO SFC
(12 25" HOLE SIZE, 1070 SX)
CIRCULATED 162 SX TO SFC

5.5" 17# L-80 LTC CSG @ W/ TOC @ SFC.
(8 75" HOLE SIZE, 3555 SX)
STG 1 - 2170 SX - OPEN DV TOOL - CIRC'D 133 SX
STG 2 - 1060 SX - CIRC'D 160 SX
STG 3 - 370 SX - CIRC'D 14 SX TO SFC
ID = 4 892" - DID = 4 767" - BURST = 7740 PSI - COLLAPSE = 6290 PSI



TD = 14381' PBTD = 14290'

Stage 1: 13,575' - 14,250' (6 SPF, 0.39", 38 holes)
Stage 2. 12,265' - 13,350' (6 SPF, 0 39", 38 holes)
Stage 3· 11,775' - 12,450' (6 SPF, 0.39", 38 holes)
Stage 4: 10,875' - 11,550' (6 SPF, 0.39", 38 holes)
Stage 5: 9,975' - 10,650' (6 SPF, 0.39", 38 holes)
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TR 6/28/12