

NM OIL CONSERVATION ARTESIA DISTRICT OCD Artesia

AUG 13 2014

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

5. Lease Serial No.
NMLC048479B

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM128925X

8. Lease Name and Well No.
ARTESIA YESO FEDERAL UNIT 27Y

9. API Well No.
30-015-42378

10. Field and Pool, or Exploratory
ARTESIA; GLORIETA-YESO

11. Sec., T., R., M., or Block and Survey
or Area Sec 20 T17S R28E Mer

12. County or Parish
EDDY

13. State
NM

17. Elevations (DF, KB, RT, GL)*
3639 GL

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

2. Name of Operator
OXY USA WTP LP

Contact: JENNIFER A DUARTE
E-Mail: jennifer_duarte@oxy.com

3. Address
PO BOX 4294
HOUSTON, TX 77210

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

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

At surface NENW 514FNL 1666FWL

At top prod interval reported below NENW 514FNL 1666FWL

At total depth NENW 514FNL 1666FWL

14. Date Spudded
05/16/2014

15. Date T.D. Reached
05/19/2014

16. Date Completed
☐ D & A ☒ Ready to Prod.
07/02/2014

18. Total Depth: MD 4864
TVD 4864

19. Plug Back T.D.: MD 4811
TVD 4811

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
COMBO, CBL

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

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
11.000	8.625 J55	24.0	0	405		200		0	
7.875	5.500 L80	17.0	0	4864		800		0	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	3768							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	3350	4864	3955 TO 4647	0.430	126	PRODUCING
B)						
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
3955 TO 4647	FLUID - 1,032,860 SLICKWATER; 6,520 GALS 15% HCL. SAND - 31,579 LBS 100 MESH; 630,063 LBS 40/70

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
07/24/2014	07/24/2014	24	→	140.0	45.0	950.0	39.0		ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI 330	105.0	→	140	45	950	321	POW	

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. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #255029 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

RECLAMATION
DUE 11/24/2015

ACCEPTED FOR RECORD
AUG 9 2014
[Signature]
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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 (Sold, used for fuel, vented, etc.)
SOLD

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
YATES	410		SAND; WATER	RUSTLER	140
SEVEN RIVERS	604		SAND; WATER	TOP OF SALT	300
QUEEN	1170		DOLOMITE SAND; WATER	BASE OF SALT	390
GRAYBURG	1640		DOLOMITE SAND; WATER	YATES	410
SAN ANDRES	1749		DOLOMITE SAND; WATER, OIL, GAS	SEVEN RIVERS	604
GLORIETA	3350		SANDSTONE; WATER	QUEEN	1170
PADDOCK	3440		DOLOMITE SAND; WATER, OIL, GAS	GRAYBURG	1640
BLINEBRY	3900		TIGHT DOLOMITE; WATER, OIL, GAS	SAN ANDRES	1749

32. Additional remarks (include plugging procedure):
TUBB 4820 SAND; WATER

Glorieta 3350'
Paddock 3440'
Blinebry 3900'
Tubb 4820'
TD 4900'

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7. Other:

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

Electronic Submission #255029 Verified by the BLM Well Information System.
For OXY USA WTP LP, sent to the Carlsbad

Name (please print) JENNIFER A DUARTE

Title REGULATORY SPECIALIST

Signature (Electronic Submission)

Date 07/29/2014

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.

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

Occidental Oil & Gas Corp – Permian Primary – North NM/Terrell RMT

Well: Artesia Yeso Federal Unit #27Y

API: 30-015-42378

State: New Mexico

County: Eddy

T17S R28E, Sec 20

514' FNL & 1716' FEL

Field: Empire

TD: 4,864'

PBTD: 4,811'

KB: 3,665' ASL

Casing Size:

Grade/Weight:

Depth:

Cement:

8-5/8"

J-55 / 24#

405'

200 sx, 65sx circ'd to surf

5-1/2"

L-80 BTC / 17#

4,864'

800 sx, 307sx circ'd to surf

Surf Csg: 8-5/8" 24# J-55
Cement: 200 sx, 65sx circ'd to surf

Surf Csg @ 405'

Accepted for record
NMOCD

Perforation Intervals

Stage #	Depth
4	3955-3957
	3966-3968
	4069-4070
3	4156-4158
	4195-4196
	4246-4248
2	4310-4311
	4346-4348
	4370-4372
	4428-4430
1	4538-4539
	4569-4570
	4631-4634
	4645-4647

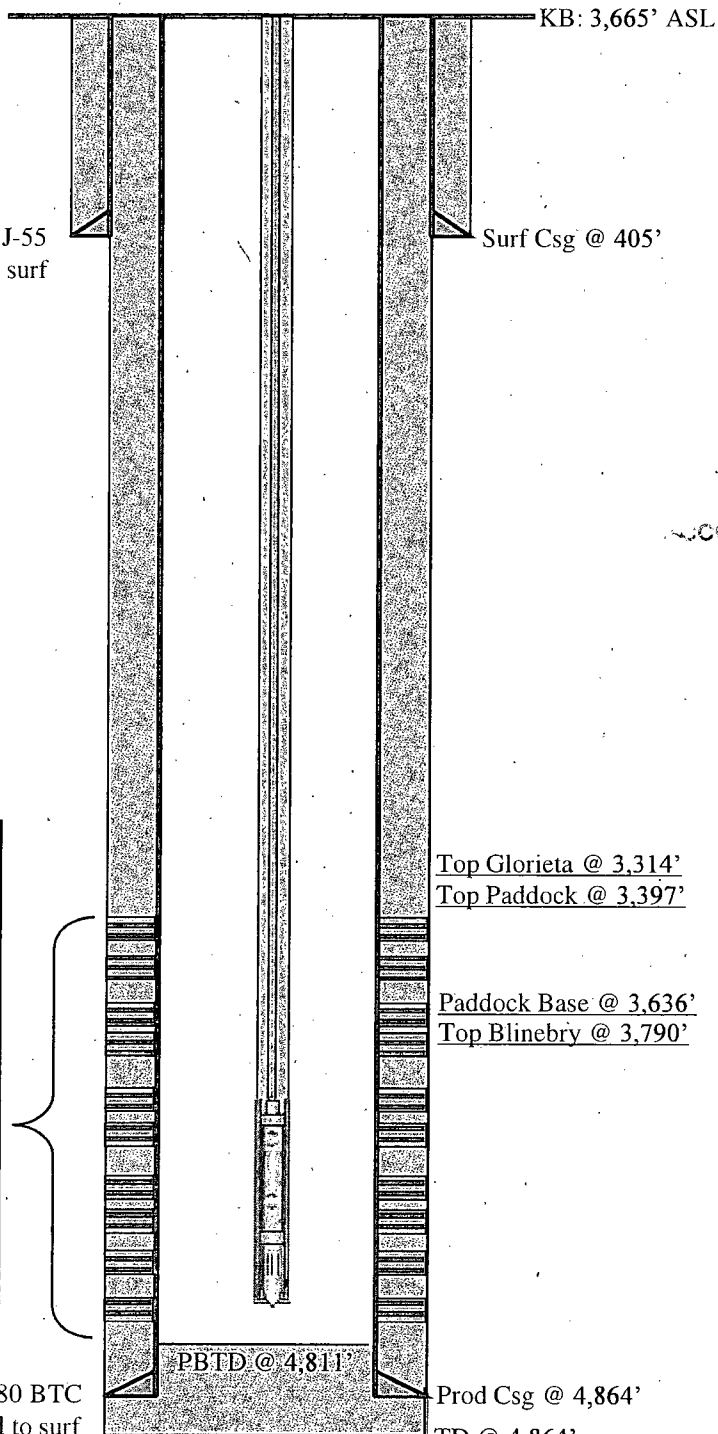
Top Glorieta @ 3,314'
Top Paddock @ 3,397'

Paddock Base @ 3,636'
Top Blinebry @ 3,790'

PBTD @ 4,811'

Prod Csg: 5-1/2" 17# L-80 BTC
Cement: 800 sx, 370sx circ'd to surf

Prod Csg @ 4,864'
TD @ 4,864'





FloSurvey - Real Time Survey Tool

1200 Cypress Creek Road
Cedar Park, TX 78613
Phone: (512)340-5000
Fax: (512)340-5441

May 22, 2014

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

CLIENT: OXY
WELL: AYFU #27Y
FIELD: N/A
RIG: H&P 344
COUNTY: Eddy
API NO: 30-015-42378

We hereby certify that the enclosed field survey data performed on the referenced well by National Oilwell Varco, contained in this report represents to the best of our knowledge, a true and accurate survey of the surveyed section of the well at the time the survey was run.

Other information required by your office is as follows.

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Jose Olivas Field Service Technician	AYFU #27Y Original Hole	455.00 Ft to 4821.00 Ft	May 18, 2014 to May 19, 2014	FloSurvey

If any other information is required, please contact the undersigned at the above letterhead and phone number.
Sincerely,

Tyler Andreason
Field Service Manager

CC: OXY
Enclosures: [2]
County of Eddy
State of New Mexico

Attn: Linsay Earle
5 Greenway Plaza, Suite 110
Houston, Texas 77406

Attn: Ryan Yeatman
5 Greenway Plaza, Suite 110
Houston, Texas 77406



FloSurvey - Real Time Survey Tool

1200 Cypress Creek Road

Cedar Park, TX 78613

Phone: (512) 340-5000

Fax: (512) 340-5441

I, Jose Olivas certify that; I am employed by National Oilwell Varco, L.P.; that the surveys taken on the day(s) of May 18, 2014 through May 19, 2014, from a depth of 455.00 Ft feet to a depth of 4821 feet; are to the best of my knowledge, the data is true, correct, complete and within the limitations of the tool as set forth by National Oilwell Varco, L.P.; that I am authorized and qualified to make this report; that this survey was conducted at the request of OXY for the AYPJ #27Y Well (Original Hole) API No. 30-015-42378 in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by National Oilwell Varco, L.P.

Signature

Jose Olivas

Field Service Technician

OXY USA
Eddy County
AYFU #27Y
Surveys: 455`MD - 4821`MD
UWI No. 30-015-42378

National Oilwell Varco

Survey Report

21 May 2014

UWI No. 30-015-42378

Surface Coordinates: 664019.80 N, 540833.70 E (32° 49' 31.4647" N, 104° 12' 01.4579" W)
Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Foot

Surface Coordinates relative to Map Coordinates: 664019.80 N, 540833.70 E (Grid)
Surface Coordinates relative to Map Coordinates: 664019.80 N, 540833.70 E (Grid)

Kelly Bushing Elevation: 3655.30ft above Mean Sea Level
Kelly Bushing Elevation: 3655.30ft above Mean Sea Level

Kelly Bushing Elevation: 16.80ft above Ground Level
Ground Level: 3638.50ft

Survey Ref: svy65

Survey Depth (ft)	Incl. (°)	(Grid) Azim. (°)	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (%/100ft)
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00	
455.00	0.240	1.920	455.00	0.95 N	0.03 E	0.78	0.053
890.00	0.200	238.640	890.00	1.47 N	0.59 W	1.55	0.089
1094.00	0.110	15.530	1094.00	1.47 N	0.84 W	1.69	0.142
1300.00	0.100	354.230	1300.00	1.84 N	0.80 W	1.98	0.019
2042.00	0.690	19.490	2041.98	6.70 N	0.62 E	5.30	0.081
2355.00	0.850	46.120	2354.95	10.08 N	2.93 E	6.91	0.124
2668.00	0.760	24.310	2667.92	13.58 N	5.45 E	8.49	0.101
2983.00	0.550	8.990	2982.90	16.98 N	6.55 E	10.76	0.086
3298.00	0.150	3.290	3297.89	18.89 N	6.81 E	12.23	0.127
3613.00	0.390	278.160	3612.89	19.45 N	5.77 E	13.26	0.129
4595.00	1.330	273.960	4594.77	20.71 N	8.91 W	22.24	0.096
4821.00	1.110	281.440	4820.72	21.33 N	13.67 W	25.33	0.120

All data is in Feet (US Survey) unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to AYFU #27Y. Northings and Eastings are relative to AYFU #27Y.

The dogleg severity is in Degrees per 100 feet (US Survey).
Vertical Section is from AYFU #27Y calculated along an azimuth of 327.344° (Grid).

Based upon minimum curvature calculations, at a measured depth of 4821.00ft,
the bottom hole displacement is 25.33ft, in the direction of 327.344° (Grid).

The along-hole displacement is 42.63ft. The total accumulated dogleg is 4.342°.
The measured tortuosity is 0.092°/100ft. The directional difficulty index is 1.8.

Survey Tool Program for AYFU #27Y, Surveys: 455`MD - 4821`MD

From Measured Depth (ft)	Vertical Depth (ft)	To Measured Depth (ft)	Vertical Depth (ft)	Survey Tool Description
0.00	0.00	4821.00	4820.72	FloSurvey TiltOnlyMEM

REFERENCE DATA			
Ellipsoid	Clarke - 1866	Unit System	Feet (Us Survey)
Coord. System	NAD27 New Mexico State Planes, Eastern Zone, US Foot	North Ref.	Grid North
Mag. Model	igrf2010.dat	Vertical Ref.	Mean Sea Level
Calc. Date	15 May, 2014		

LOCATION DATA			
RKB Elevation	3655.30ft above MSL	Total Field	48614.7 nT
Map North	664019.80 N	Magnetic Dip	60.563°
Map East	540833.70 E	Declination	7.565°
Latitude	32° 49' 31.4647" N	Convergence	0.072°
Longitude	104° 12' 01.4579" W		

NORTH REFERENCE DATA	
Magnetic Model	igrf2010.dat
Calculation Date	Thursday, May 15, 2014
Declination	7.565°
Inclination/Dip	60.563°
Horizontal Component	23892.8 nT
Northerly Component	23685.5 nT
Easterly Component	3145.0 nT
Vertical Component	42338.3 nT
Total Field Strength	48614.7 nT
Grid North is 0.072 degrees East of True North (Grid Convergence) Magnetic North is 7.565 degrees East of True North (Magnetic Declination) Magnetic North is 7.493 degrees East of Grid North (Magnetic Convergence)	
To convert a True Direction to a Grid Direction, Subtract 0.072 degrees. To convert a Magnetic Direction to a True Direction, Add 7.565 degrees. To convert a Magnetic Direction to a Grid Direction, Add 7.493 degrees.	

The diagram illustrates the angular relationships between different north references. It features three primary north arrows originating from a common point: 'True North' (vertical), 'Grid North' (slightly east of True North), and 'Magnetic North' (further east). The angle between True North and Grid North is labeled as 0.072°. The angle between Grid North and Magnetic North is labeled as 7.493°. A fourth arrow, labeled 'Hole Direction', points horizontally to the right, representing the survey direction.

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