

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name	
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr. Other _____		7. Unit or CA Agreement Name and No. NMNM128925X	
2. Name of Operator OXY USA WTP LP		8. Lease Name and Well No. ARTESIA YESO FEDERAL UNIT 20	
3. Address HOUSTON, TX 77210		9. API Well No. 30-015-41335-00-S1	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNE 932FNL 1786FWL At top prod interval reported below NWNE 932FNL 1786FWL At total depth NWNE 932FNL 1786FWL		10. Field and Pool, or Exploratory ARTESIA	
14. Date Spudded 04/15/2014		15. Date T.D. Reached 04/23/2014	
16. Date Completed ☐ D & A ☒ Ready to Prod. 05/15/2014		17. Elevations (DF, KB, RT, GL)* 3608 GL	
18. Total Depth: MD 4926 TVD 4926		19. Plug Back T.D.: MD 4882 TVD 4882	
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 J-55	24.0	0	400		500		0	
7.875	5.500 L-80	17.0	0	4926		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	4849							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	3350	4926	4068 TO 4832	0.430	188	PRODUCING
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
4068 TO 4832	FLUID - 1,239,538 SLICKWATER; 8,000 GALS 15% HCL. SAND - 40,780 LBS 100 MESH; 326,980 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
06/25/2014	06/26/2014	24	→	60.0	81.0	642.0	39.0		BUREAU OF LAND MANAGEMENT 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	
	330	100.0	→	60	81	642	1350	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
			→						NM OIL CONSERVATION ARTESIA DISTRICT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

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

ELECTRONIC SUBMISSION #251011 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

RECEIVED

JUL 07 2014

AB

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 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 #251011 Verified by the BLM Well Information System.
For OXY USA WTP LP, sent to the Carlsbad
Committed to AFMSS for processing by DUNCAN WHITLOCK on 06/27/2014 (14DW0121SE)**

Name (please print) JENNIFER A DUARTE

Title REGULATORY SPECIALIST

Signature _____ (Electronic Submission)

Date 06/26/2014

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.

**** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ****

FloSurvey - Real Time Survey Tool

1200 Cypress Creek Road

Cedar Park, TX 78613

Phone: (512)340-5000

Fax: (512)340-5441

April 26, 2014

Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

CLIENT: OXY

WELL: AYPF #20

FIELD: N/A

RIG: Savanna #415

COUNTY: Eddy

API NO: 30-015-41335

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	AYPF #20 Original Hole	434.00 Ft to 4881.00 Ft	April 20, 2014 to April 23, 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: Lindsay 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 April 20, 2014 through April 23, 2014, from a depth of 434.00 Ft feet to a depth of 4881 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 AYFU #20 Well (Original Hole) API No. 30-015-41335 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 #20
Surveys: 434`MD - 4881`MD
UWI No. 30-015-41335

National Oilwell Varco

Survey Report

26 April 2014

UWI No. 30-015-41335

Surface Coordinates: 663655.10 N, 547880.50 E (32° 49' 27.7606" N, 104° 10' 38.8809" W)

Grid Coordinate System: NAD27 New Mexico State Planes, Eastern Zone, US Foot

Surface Coordinates relative to Map Coordinates: 663655.10 N, 547880.50 E (Grid)

Surface Coordinates relative to Map Coordinates: 663655.10 N, 547880.50 E (Grid)

Kelly Bushing Elevation: 3622.10ft above Mean Sea Level

Kelly Bushing Elevation: 3622.10ft above Mean Sea Level

Kelly Bushing Elevation: 14.00ft above Ground Level

Ground Level: 3608.10ft

Survey Ref: svy54

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	
434.00	1.520	237.730	433.95	3.07 S	4.87 W	5.70	0.350
648.00	1.070	238.880	647.89	5.62 S	8.98 W	10.49	0.211
835.00	0.910	218.110	834.87	7.69 S	11.39 W	13.66	0.209
1037.00	0.440	222.620	1036.85	9.53 S	12.90 W	16.00	0.234
1334.00	0.130	263.490	1333.85	10.40 S	14.01 W	17.42	0.119
1462.00	0.320	305.810	1461.85	10.21 S	14.45 W	17.62	0.188
1681.00	0.390	302.130	1680.84	9.46 S	15.57 W	18.00	0.034
1894.00	0.290	296.420	1893.84	8.83 S	16.67 W	18.43	0.050
2024.00	0.630	252.320	2023.84	8.90 S	17.64 W	19.22	0.360
2247.00	0.520	259.520	2246.82	9.46 S	19.81 W	21.24	0.059
2463.00	0.410	247.170	2462.82	9.94 S	21.48 W	22.82	0.069
2765.00	1.140	211.550	2764.79	12.91 S	24.05 W	26.71	0.279
3022.00	1.340	223.240	3021.73	17.28 S	27.45 W	32.12	0.125
3243.00	1.040	214.250	3242.68	20.82 S	30.35 W	36.62	0.159
3455.00	0.790	225.390	3454.65	23.44 S	32.47 W	39.93	0.144
3839.00	0.450	219.500	3838.63	26.46 S	35.31 W	44.05	0.090
4280.00	0.420	201.210	4279.62	29.31 S	37.00 W	47.18	0.032
4496.00	0.570	197.880	4495.61	31.07 S	37.62 W	48.78	0.071
4669.00	0.570	216.650	4668.60	32.58 S	38.39 W	50.35	0.107
4881.00	0.530	251.300	4880.59	33.74 S	39.95 W	52.29	0.156

All data is in Feet (US Survey) unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to AYFU #20. Northings and Eastings are relative to AYFU #20.

The dogleg severity is in Degrees per 100 feet (US Survey).
Vertical Section is from AYFU #20 calculated along an azimuth of 229.822° (Grid).

Based upon minimum curvature calculations, at a measured depth of 4881.00ft,
the bottom hole displacement is 52.29ft, in the direction of 229.822° (Grid).

The along-hole displacement is 56.13ft. The total accumulated dogleg is 6.750°.
The measured tortuosity is 0.142°/100ft. The directional difficulty index is 2.1.

Survey Tool Program for AYFU #20, Surveys: 434`MD - 4881`MD

From Measured Depth (ft)	Vertical Depth (ft)	To Measured Depth (ft)	Vertical Depth (ft)	Survey Tool Description
0.00	0.00	4881.00	4880.59	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 Apr, 2014		

LOCATION DATA			
RKB Elevation	3622.10ft above MSL	Total Field	48625.1 nT
Map North	663655.10 N	Magnetic Dip	60.568°
Map East	547880.50 E	Declination	7.565°
Latitude	32° 49' 27.7606" N	Convergence	0.084°
Longitude	104° 10' 38.8809" W		

NORTH REFERENCE DATA		
Magnetic Model	igrf2010.dat	
Calculation Date	Tuesday, April 15, 2014	
Declination	7.565°	
Inclination/Dip	60.568°	
Horizontal Component	23894.2 nT	
Northerly Component	23686.9 nT	
Easterly Component	3144.9 nT	
Vertical Component	42349.4 nT	
Total Field Strength	48625.1 nT	
Grid North is 0.084 degrees East of True North (Grid Convergence)		
Magnetic North is 7.565 degrees East of True North (Magnetic Declination)		
Magnetic North is 7.480 degrees East of Grid North (Magnetic Convergence)		
To convert a True Direction to a Grid Direction, Subtract 0.084 degrees.		
To convert a Magnetic Direction to a True Direction, Add 7.565 degrees.		
To convert a Magnetic Direction to a Grid Direction, Add 7.480 degrees.		

The diagram illustrates the angular relationships between three types of North: True North, Grid North, and Magnetic North. True North is represented by a vertical arrow. Grid North is an arrow that is 0.084 degrees east of True North. Magnetic North is an arrow that is 7.480 degrees east of Grid North. A horizontal arrow pointing to the right is labeled 'Hole Direction'. The angles are indicated by arcs between the respective arrows.

Disclaimer Notice

National Oilwell Varco makes no warranty of any kind with respect to the subject matter included herein or the completeness or accuracy of this document.

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

Well: Artesia Yeso Federal Unit #20

API: 30-015-41335

State: New Mexico

County: Eddy

T17S R28E, Sec 21

932' FNL & 1786' FEL

Field: Empire

TD: 4,926'

PBTD: 4,882.1'

KB: 3,622.1' ASL

Casing Size:

Grade/Weight:

Depth:

Cement:

8-5/8"

J-55 STC / 24#

400'

500 sx, 242 sx circ'd to surf

5-1/2"

L-80 BTC / 17#

4,926'

800 sx, 92 sx circ'd to surf

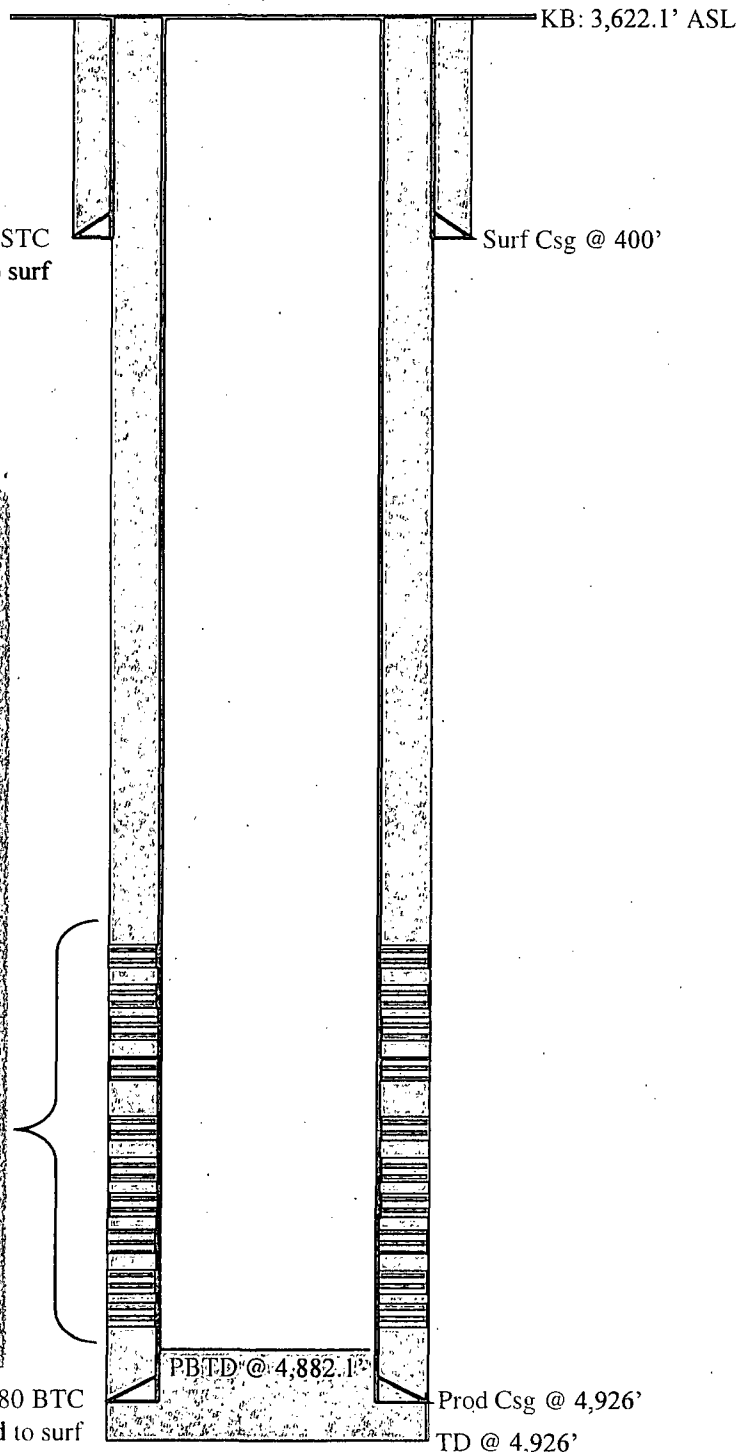
Surf Csg: 8-5/8" 24# J-55 STC
Cement: 500 sx, 242 sx circ'd to surf

Surf Csg @ 400'

Perforation Intervals

Stage #	Depth
1	4830-4832
	4821-4822
	4743-4744
	4706-4708
	4683-4685
	4664-4666
2	4623-4624
	4578-4579
	4556-4558
	4546-4547
	4520-4521
3	4367-4368
	4338-4340
	4306-4308
	4301-4302
	4258-4260
4	4242-4244
	4196-4197
	4183-4184
	4146-4147
	4110-4111
	4105-4106
	4085-4087
	4068-4070

Prod Csg: 5-1/2" 17# L-80 BTC
Cement: 800 sx, 92 sx circ'd to surf



Prod Csg @ 4,926'
TD @ 4,926'