

**RAILROAD COMMISSION OF TEXAS****Form W-2**

1701 N. Congress
P.O. Box 12967
Austin, Texas 78701-2967

Status: Approved
Date: 04/03/2019
Tracking No.: 210131

OIL WELL POTENTIAL TEST, COMPLETION OR RECOMPLETION REPORT, AND LOG**OPERATOR INFORMATION**

Operator Name: OXY USA INC. Operator No.: 630591
Operator Address: ATTN KELLEY MONTGOMERY 5 GREENWAY PLAZA SUITE 110 HOUSTON, TX 77046-0000

WELL INFORMATION

API No.: 42-103-33825 County: CRANE
Well No.: M 5 RRC District No.: 08
Lease Name: BLOCK 31 UNIT Field Name: BLOCK 31 (PENN. 7620)
RRC Lease No.: 51135 Field No.: 09358900
Location: Section: 39, Block: 31, Survey: UL, Abstract: U87

Latitude: 31 Longitude: -102
This well is located 6.5 miles in a NW
direction from CRANE,
which is the nearest town in the county.

FILING INFORMATION

Purpose of filing: Well Record Only
Type of completion: Other/Recompletion
Well Type: Producing Completion or Recompletion Date: 06/14/2018

Type of Permit	Date	Permit No.
Permit to Drill, Plug Back, or Deepen	03/07/2019	836895
Rule 37 Exception		
Fluid Injection Permit		
O&G Waste Disposal Permit		
Other:		

COMPLETION INFORMATION

Spud date: 11/24/1987	Date of first production after rig released: 06/14/2018
Date plug back, deepening, recompletion, or drilling operation commenced: 05/15/2018	Date plug back, deepening, recompletion, or drilling operation ended: 06/14/2018
Number of producing wells on this lease in this field (reservoir) including this well: 5	Distance to nearest well in lease & reservoir (ft.): 10663.0
Total number of acres in lease: 7840.00	Elevation (ft.): 2532 GL
Total depth TVD (ft.): 9100	Total depth MD (ft.):
Plug back depth TVD (ft.): 7975	Plug back depth MD (ft.):
Was directional survey made other than inclination (Form W-12)? No	Rotation time within surface casing (hours):
Recompletion or reclass? Yes	Is Cementing Affidavit (Form W-15) attached? Yes
Type(s) of electric or other log(s) run: None	Multiple completion? No
Electric Log Other Description:	
Location of well, relative to nearest lease boundaries of lease on which this well is located:	Off Lease : No
4101.0 Feet from the	East Line and
2621.0 Feet from the	South Line of the
	BLOCK 31 UNIT Lease.

FORMER FIELD (WITH RESERVOIR) & GAS ID OR OIL LEASE NO.

Field & Reservoir	Gas ID or Oil Lease No.	Well No.	Prior Service Type
PACKET BLOCK 31 (DEVONIAN)	00442	M 5	

W2: N/A

FOR NEW DRILL OR RE-ENTRY, SURFACE CASING DEPTH DETERMINED BY:

GAU Groundwater Protection Determination

Depth (ft.):

Date:

SWR 13 Exception

Depth (ft.):

INITIAL POTENTIAL TEST DATA FOR NEW COMPLETION OR RECOMPLETION

Date of test: 06/19/2018

Production method: Pumping

Number of hours tested: 24

Choke size:

Was swab used during this test? No

Oil produced prior to test: 0.00

PRODUCTION DURING TEST PERIOD:

Oil (BBLs): 45.00

Gas (MCF): 93

Gas - Oil Ratio: 2066

Flowing Tubing Pressure:

Water (BBLs): 109

CALCULATED 24-HOUR RATE

Oil (BBLs): 45.0

Gas (MCF): 93

Oil Gravity - API - 60.: 36.0

Casing Pressure:

Water (BBLs): 109

CASING RECORD

Row	Type of Casing	Casing Size (in.)	Hole Size (in.)	Setting Depth (ft.)	Multi - Stage Depth (ft.)	Multi - Stage Shoe Depth (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
1	Surface	13 3/8	17 1/2	733			C	800	0.0	0	Circulated to Surface
2	Intermediate	8 5/8	11	2560			C	1000	0.0	352	Temperature Survey
3	Conventional Production	5 1/2	7 7/8	9100			C	1050	0.0	793	Temperature Survey

LINER RECORD

Row	Liner Size (in.)	Hole Size (in.)	Liner Top (ft.)	Liner Bottom (ft.)	Cement Class	Cement Amount (sacks)	Slurry Volume (cu. ft.)	Top of Cement (ft.)	TOC Determined By
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N/A

TUBING RECORD

Row	Size (in.)	Depth (ft.)	Size (ft.)	Packer Depth (ft.)	Type
1	2 7/8	7975		/	

PRODUCING/INJECTION/DISPOSAL INTERVAL

Row	Open hole?	From (ft.)	To (ft.)
1	No	L 7267	7339.0

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC.

Was hydraulic fracturing treatment performed? No

Is well equipped with a downhole actuation sleeve? No

If yes, actuation pressure (PSIG):

Production casing test pressure (PSIG) prior to hydraulic fracturing treatment:

Actual maximum pressure (PSIG) during hydraulic fracturing:

Has the hydraulic fracturing fluid disclosure been reported to FracFocus disclosure registry (SWR29)? No

Row	Type of Operation	Amount and Kind of Material Used	Depth Interval (ft.)
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1	Other	OPENED PERFORATIONS	7263	8989
2	Cast Iron Bridge Plug	5 1/2" CIBP SET WITH 3 SX CLASS H, 25' CMT ON TOP	7975	8000
3	Acid	1831 BBLS 15% HCL	7267	7339

FORMATION RECORD

<u>Formations</u>	<u>Encountered</u>	<u>Depth TVD (ft.)</u>	<u>Depth MD (ft.)</u>	<u>Is formation isolated?</u>	<u>Remarks</u>
WOLFCAMP LS	Yes	6741.0		Yes	
CISCO - PENN DETRITAL	Yes	7020.0		Yes	
CANYON	Yes	7160.0		Yes	
UPPER STRAWN	Yes	7320.0		Yes	
ATOKA	Yes	7408.0		Yes	
BARNETT	Yes	7474.0		Yes	
OSAGE	Yes	7873.0		Yes	
WOODFORD	Yes	7897.0		Yes	
DEVONIAN	Yes	8092.0		Yes	
Do the producing interval of this well produce H2S with a concentration in excess of 100 ppm (SWR 36)?					No
Is the completion being downhole commingled (SWR 10)?					No

REMARKS

RECOMPLETED WELL FROM DEVONIAN TO BLOCK 31 (PENN. 7620). SHOT PERFORATIONS, ACIDIZED PERFS, SET CIBP@ 8000 W/25' CMT ON TOP @ 7975' TO ISOLATE LOWER PERFORATIONS. WELL TURNED BACK ONTO PRODUCTION 6/14/2019.

RRC REMARKS

PUBLIC COMMENTS:

CASING RECORD :

ORIGINAL CSG UNDISTURBED.

TUBING RECORD:

PRODUCING/INJECTION/DISPOSAL INTERVAL :

ACID, FRACTURE, CEMENT SQUEEZE, CAST IRON BRIDGE PLUG, RETAINER, ETC. :

PERF'D@7339 7333 ; 7331 7326 ,7276'-7271', 7267'-7263',7267'-7270'.

POTENTIAL TEST DATA:

OPERATOR'S CERTIFICATION**Printed Name:** Nipal Holland**Title:** Regulatory Advisor**Telephone No.:** (713) 497-2052**Date Certified:** 03/14/2019



RAILROAD COMMISSION OF TEXAS

1701 N. Congress

P.O. Box 12967

Austin, Texas 78701-2967

Form W-15

Rev. 08/2014

OXY USA INC.

CEMENTING REPORT

Cementers: Fill in shaded areas.
Operator: Fill in other items.

OPERATOR INFORMATION

Operator Name: ~~XXXXXXXXXXXXXXXXXXXX~~
Operator P-5 No.: 630591
Cementor Name: Renegade Services
Cementor P-5 No.:

WELL INFORMATION

District No.: 08
County: CRANE
Well No.: ~~XXXXXXXXXXXX~~ M 5
API No.: 42-103-33825
Drilling Permit No.: 836895
Lease Name: BLOCK 31 UNIT
Lease No.: 00442
Field No.: 09358900
Field Name: BLOCK 31 (PENN. 7620)

I. CASING CEMENTING DATA

Type of casing:	<input type="checkbox"/> Conductor	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Liner	<input type="checkbox"/> Production
Drilled hole size (in.):	Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:		
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:		No. of centralizers used:		
Was cement circulated to ground surface (or bottom of collar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO If no for surface casing, explain in Remarks.		Setting depth shoe (ft.):		Top of liner (ft.):	
				Setting depth liner (ft.):	
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):		Cementing date:	
SLURRY					
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)
1					
2					
3					
Total					

II. CASING CEMENTING DATA

Type of casing:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement shoe	<input type="checkbox"/> Multiple parallel strings
Drilled hole size (in.):	Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:			
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:		No. of centralizers used:			
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)				
Upper: Lower:		Upper: Lower:		Upper: Lower:		
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used		
Upper: Lower:		Upper: Lower:		Upper: Lower:		
Was cement circulated to ground surface (or bottom of collar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO		Setting depth shoe (ft.):		Cementing date:		
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):				
SLURRY						
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)	
1						
2						
3						
Total						

III. CASING CEMENTING DATA

Type of casing:	<input type="checkbox"/> Surface	<input type="checkbox"/> Intermediate	<input type="checkbox"/> Production	<input type="checkbox"/> Tapered production	<input type="checkbox"/> Multi-stage cement/DV tool	<input type="checkbox"/> Multiple parallel strings
Drilled hole size (in.):	Depth of drilled hole (ft.):		Est. % wash-out or hole enlargement:			
Size of casing in O.D. (in.):	Casing weight (lbs/ft) and grade:		No. of centralizers used:			
Tapered string drilled hole size (in.)		Tapered string depth of drilled hole (ft.)				
Upper: Lower:		Upper: Lower:		Upper: Lower:		
Tapered string size of casing in O.D. (in.)		Tapered string casing weight (lbs/ft) and grade		Tapered string no. of centralizers used		
Upper: Lower:		Upper: Lower:		Upper: Lower:		
Was cement circulated to ground surface (or bottom of collar) outside casing? <input type="checkbox"/> YES <input type="checkbox"/> NO		Setting depth tool (ft.):		Cementing date:		
Hrs. waiting on cement before drill-out:		Calculated top of cement (ft.):				
SLURRY						
Slurry No.	No. of Sacks	Class	Additives	Volume (cu. ft.)	Height (ft.)	
1						
2						
3						
Total						

CEMENTING TO SQUEEZE, PLUG BACK OR PLUG AND ABANDON

	PLUG #1	PLUG #2	PLUG #3	PLUG #4	PLUG #5	PLUG #6	PLUG #7
Cementing Date	5-21-18						
Size of hole or pipe (in.)	5 1/2"						
Depth to bottom of tubing or drill pipe (ft.)	—						
Cement retainer setting depth (ft.)	—						
CIBP setting depth (ft.)	8,000'						
Amount of cement on top of CIBP (ft.)	25'						
Sacks of cement used	3						
Slurry volume pumped (cu. ft.)	3.34						
Calculated top of plug (ft.)	7,975'						
Measured top of plug, if tagged (ft.)	—						
Slurry weight (lbs./gal)	14.8						
Class/type of cement	Class H						
Perforate and squeeze (YES/NO)	—						

REMARKS

Plug #1 CIBP set @ 8,000' and dumped 25' of cement.

CEMENTER'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that the cementing of casing and/or the placing of cement plugs in this well as shown in the report was performed by me or under my supervision, and that the cementing data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers cementing data only.

Garrett Blair Engineer RWLS Garrett Blair
 Name and title of cementer's representative Cementing Company Signature
 1101 St. Hwy 83 West Denver City TX 79323 806-592-3321 May 21, 2018
 Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

OPERATOR'S CERTIFICATE: I declare under penalties prescribed in Sec. 91.143, Texas Natural Resources Code, that I am authorized to make this certification, that I have knowledge of the well data and information presented in this report, and that data and facts presented on both sides of this form are true, correct, and complete, to the best of my knowledge. This certification covers all well data.

NIPAL BELLMONDE

REGULATORY ADVISOR

Typed or printed name of operator's representative Title Signature
 5 GREENWAY PLAZA SUITE 110, HOUSTON, TEXAS 77046 713-497-2052 03/11/2019
 Address City, State, Zip Code Tel: Area Code Number Date: mo. day yr.

Instructions for Form W-15, Cementing Report

NOTICE: The Form W-15 must be submitted as an attachment to a Form G-1 (Gas Well Back Pressure Test, Completion or Recompletion Report, and Log), Form W-2 (Oil Well Potential Test, Completion or Recompletion Report, and Log), Form W-3 (Plugging Record), or Form W-4 (Application for Multiple Completion), any time cement is pumped in a wellbore.

- What to file:** An operator should file an original and one copy of the completed Form W-15 for each cementing company used on a well. The cementing of different casing strings on a well by one cementing company may be reported on one form.
 The Form W-15 should be filed with the Form W-3, Plugging Record, unless the Form W-3 is signed by the cementing company representative. When reporting dry holes, operators must complete Form W-15, in addition to Form W-3, to show any casing cemented in the hole.
- How to file:** An oil and gas completion report and Form W-15 may be filed online using the Commission's Online System (<https://webapps.rrc.state.tx.us/security/login.do>) or a paper copy of the form may be mailed to the Commission in Austin (P.O. Box 12967, Austin, Texas 78711-2967).
- Surface casing:** An operator must set and cement sufficient surface casing to protect all usable-quality water strata, as defined by the Groundwater Advisory Unit in Austin. Sufficient cement shall be used to fill the annular space outside the casing from the shoe to the ground surface or to the bottom of the cellar. Before drilling a well, an operator must obtain a letter from the Groundwater Advisory Unit stating the protection depth. Surface casing should not be set deeper than 200 feet below the specified depth without prior approval from the Commission.
 To plug and abandon a well, operators must use only cements approved by the Commission's Director of Field Operations in accordance with SWR 14 ([http://info.sos.state.tx.us/pls/pub/readtac\\$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=8ti=16&pt=1&ch=3&rl=14](http://info.sos.state.tx.us/pls/pub/readtac$ext.TacPage?sl=R&app=9&p_dir=&p_rloc=&p_tloc=&p_ploc=&pg=1&p_tac=8ti=16&pt=1&ch=3&rl=14)). Cementing companies, service companies, or operators can qualify as approved cementers by demonstrating that they are able to mix and pump cement in compliance with Commission rules and regulations.
- Estimated % wash-out:** If the estimated % wash-out is less than 20% (or 30% along the Gulf Coast), provide supporting documentation such as a caliper log to show how the estimated % wash-out was obtained.
- Multi-stage cement:** An operator must report the multi-stage cement shoe in II. Casing Cementing Data section by selecting the type of casing and Multi-stage cement shoe. The operator must report the multi-stage cement tool in III. Casing Cementing Data section by selecting the type of casing and Multi-stage cement/DV tool.
- Multiple parallel strings:** An operator should file the Form W-15 as an attachment to the Form W-4, Application for Multiple Completion. An operator may be required to submit multiple Form W-15s to show all data for multiple parallel strings.
- Slurry data:** If cement job exceeds three slurries, continue the list of slurries in the Slurry table in the subsequent Casing Cementing Data box.