

Submit 1 Copy To Appropriate District Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM 87505

HOBBS OGD
JUN 16 2014
RECEIVED

State of New Mexico
Energy, Minerals and Natural Resources
CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-025-41295
1. Type of Well: Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/>		5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator CHEVRON U.S.A. INC.		6. State Oil & Gas Lease No.
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705		7. Lease Name or Unit Agreement Name STATE "AN"
4. Well Location Unit Letter: A 500 feet from NORTH line and 590 feet from the EAST line Section 7 Township 18S Range 35E NMPM County LEA		8. Well Number 14
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3949' GL		9. OGRID Number 4323
		10. Pool name or Wildcat VACUUM; BLINBRY

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER:

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: NEW DRILL

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

PLEASE FIND ATTACHED, REPORTS FOR WORK DONE FROM 02/01/2014 THROUGH 02/21/2014 FOR THE DRILLING OF THIS NEW WELL.

SPUD DATE: 02/09/2014

02/10/2014: SET SURFACE CSG: 8 5/8", 24#, J-55, STC, SET @ 1516'. CMT W/820 SX CMT. FULL RTRNS. 95 BBLS CMT TO SURF. (SEE CSG & CMT SUMMARY ATTACHED)

02/19/2014: SET PRODUCTION CSG: 5.5", 17#, SET @ 6444'. CMT W/590 SX CMT. DID NOT GET CMT TO SURF. CMT W/1395 SX CMT. (2ND STG) (SEE CSG & CMT SUMMARY ATTACHED).

TD: 6499. PBTD: 6492

RIG RELEASED: 02/20/2014

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE 

TITLE REGULATORY SPECIALIST

DATE 06/11/2014

Type or print name DENISE PINKERTON
For State Use Only

E-mail address: denise.pinkerton@chevron.com

PHONE: 432-687-7375

APPROVED BY: 
Conditions of Approval (if any):

TITLE Petroleum Engineer

DATE 06/25/14

JUN 26 2014



Summary Report

Drill
Drill and Suspend
Job Start Date: 2/1/2014
Job End Date: 2/21/2014

Well Name NEW MEXICO STATE 'AN' 014		Lease New Mexico 'AN' State	Field Name Vacuum	Business Unit Mid-Continent	
Ground Elevation (ft) 3,949.00	Original RKB (ft) 3,962.50	Current RKB Elevation 3,962.50, 1/14/2014		Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Report Start Date: 2/1/2014	Com	HOBBS OCD
No Activity on site, Waiting for rig.		
Report Start Date: 2/2/2014	Com	HOBBS OCD
No Activity on site, Waiting for rig.		JUN 16 2014
Report Start Date: 2/3/2014	Com	JUN 16 2014
No Activity on site, Waiting for rig.		RECEIVED
Report Start Date: 2/4/2014	Com	RECEIVED
Continue rig repairs and cleaning. Performing D.O.T. certification- 5 loads completed today, 9 loads total 2 loads left to get certified Referb center mast and top drive carrig Rig unit in Midland Ensign yard		
Report Start Date: 2/5/2014	Com	
Hold PJSM with Monster Trucking Company, Ensign 802 personnel, and CVX reviewed rig move checklist. Move Ensign 802 from Syco 98 to New Mexico AN State 14. Suspend operations @ 19:00. Six loads left on Syco location pipe wrangler, parts house, and miscellaneous loads. Waiting on mast and top drive upgrades in Ensign Yard.		
Received 15 loads to the AN #14 set shale pit and welders working to fab equipment to hook up Qmax mud stripper equipment		
Operations suspended until daylight		
No Activity on site, Waiting for rig.		
Report Start Date: 2/6/2014	Com	
No Activity on site. Wait for daylight to move remaining loads from Syco 98. Wait for rig upgrades/repairs to be completed in Ensign Yard.		
Move remaining loads from Syco 98 to name to NM 'AN' State #14. All loads on location at 1430 hrs. Spot loads on NM 'AN' State #14.		
Continue to spot loads and R/U Ensign 802.		
No activity on site. Wait for center mast and derrick to arrive from Ensign Yard.		
Report Start Date: 2/7/2014	Com	
No activity on site. Wait for rig unit to arrive from Ensign Yard.		
R/U Ensign 802 on NM 'AN' State #14. Rig unit did not arrive as expected due to delays in yard before D.O.T. certification. Waiting on Rig unit to arrive from its current location in Andrews, TX.		
No activity on site. Wait for rig unit to arrive from Andrews, TX.		
Report Start Date: 2/8/2014	Com	
No activity on site. Wait for rig unit to arrive from Ensign Yard.		
Continue R/U of Ensign 802 after rig unit arrived on location @ 1045 hrs. Derrick raised @ 1500 hrs. OCD notified of intent to spud @ 1545 hrs.		
Report Start Date: 2/9/2014	Com	
R/U Ensign 802. Repair all hydraulic leaks. Replace hydraulic pump. Function test and recondtion all equipment.. Perform pre-spud rig inspection and address all issues.		
Rig accepted @ 1830 hrs.		
OCD notified @ 1545 hrs on 2/8/2014 of intent to spud.		
Pick Up BHA#1 as follows: 12 1/4" PDC bit (Ultrerra U616S) 8" Shock Sub 8" Teledrift		
TIH and tag at 62' **Spud Well @ 20:30**		
Drig f/ 62' to 285' AROP = 63.7 fph WOB = 5 - 10 kips TD RPM = 60 GPM = 350 ppg SPP = 300 psi MW = 8.34 ppg pH = 10		
Report Start Date: 2/10/2014		



Summary Report

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Drill and Suspend
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Ground Elevation (ft) 3,949.00	Original RKB (ft) 3,962.50	Current RKB Elevation 3,962.50, 1/14/2014		Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Com

Drig f/ 285' to 709'
AROP = 70.7 fph
WOB = 8 klbs
TD RPM = 75
GPM = 400
SPP = 400 psi
MW = 8.34 ppg
pH = 10

Drig f/ 709' to 1146'
AROP = 109 fph
WOB = 20 klbs
TD RPM = 70
GPM = 400
SPP = 600 psi
MW = 8.34 ppg
pH = 10

Rig service

Drig f/ 1146' to 1565'
AROP = 83.8 fph
WOB = 20 klbs
TD RPM = 70
GPM = 400
SPP = 830 psi
MW = 8.34 ppg
pH = 10

Pump 2 30 bbl high visc sweeps @ TD, circulate
three B/U. Flow check well - Static
MW=8.3
Visc=30
PH=10

TOH f/1565' to surface
L/D BHA, shock sub and bit.
Clean rig floor.

PJSM w/ Express. R/U CRT and other casing
running equipment.

Run 8 5/8" 24# J-55 STC csg as follows:
Float Shoe
1 Shoe Jts
Float Collar
39 Joints
Centralizer place 10' above FS, 10' above FC and
one per 3 jts to surface.
Top of FC at 1516'

Report Start Date: 2/11/2014

Com

Run 8 5/8" 24# J-55 STC csg as follows:
Float Shoe
1 Shoe Jts
Float Collar
39 Joints
Centralizer place 10' above FS, 10' above FC and
one per 3 jts to surface.
Top of FC at 1516'

Note:
Washed csg f/ 1455' - 1565'.

Circulate and condition mud 2 btms up.

Note (if applicable):
Irregular cuttings/sweep description
Losses 0 bph.
Max gas 0 units.

PJSM with cement company and R/U cementing equipment



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Com

Perform cmt job as follows:
Pressure test lines to 3000 psi
Pump 20 bbls of fresh water spacer at 8.34 ppg..
Mix and pump 500 sxs (152.3 bbls) of Extendacem D lead at 13.6 ppg.
Mix and pump 320 sxs (76.4 bbls) of Halcem tail at 14.8 ppg.
Drop top plug and displace cmt w/ 96.6 bbls of 8.34 ppg fluid.
Bump plug with 500 psi over final circulating pressure.
Bleed off pressure – floats held.

Details:
Full returns throughout job
Final circulation pressure prior to bumping plug 670 psi at 2.5 bpm
95 bbls of cmt to surface
Cmt in place at 06:45 hrs.

R/D cementers

Wait on cement.

Note:
Clean pits. R/U flare and panic line.
Prepared BOP for N/U

PJSM w/ Cotton's Welding. Rough cut 8 5/8" csg. L/D CRT & casing equipment. N/D conductor. Dress and make final cut on 8 5/8" casing.

PJSM w/ Vetco. Install 8 5/8" SOW x 11" 3M conventional wellhead. Test void to 1100 psi as per drilling procedure.

PJSM and N/U 11" 3M x 11" 5M DSA, Spacer Spools & 11" 5M Class BOPE. Install flow lines, accumulator lines, etc.

PJSM w/ Man Welding and Test BOPE to 250 psi low / 3000 psi high (1500 high on annular) as per MCBU-SOP-008. Details documented in MCBU BOP Testing Sheet and stored in WellView attachments. Test accumulator for usable fluid, pre-charge and capacity.

Test 8 5/8" casing to 1500 psi for 30 minutes.

All test good. R/D testers.

Report Start Date: 2/12/2014

Com

Continue testing BOPE to 250 psi low / 3000 psi high (1500 high on annular) as per MCBU-SOP-008. Details documented in MCBU BOP Testing Sheet and stored in WellView attachments.

Test accumulator for usable fluid (1475 psi), pre-charge (975 psi) and capacity (44 sec).

Test 8 5/8" casing to 1500 psi for 30 minutes.

All test good. R/D testers.

Test casing / 1500# - good, perform Accumulator test, final pressure 1480#

Lay out & strap - caliper all BHA, install flow line, trip tank, stairs on pit side, hook up panic line, Rig up gas buster, hook up igniter, Fill pits w/ BW, Ready floor for tripping operations

Pick up & Make up BHA & TIH, install rotating head assy., tag cement @ 1495'

Displace hole to 10 ppg brine. Choke Drill Circ through all back yard equipment and gas buster.

Drig flt equipment and clean out flt track F 1495; to 1565'

Drig fl/ 1565' to 2819'

WOB- 10m to 22m

RPM- 40 to 80

GPM- 405 gpm

AVROP- 104.5 ft/hr

Report Start Date: 2/13/2014

Com

Drig fl/ 2,815' to 3,037'

AROP = 37 fph

WOB = 5-12 klbs

TD RPM = 100

GPM = 400

SPP = 1600 psi

MW = 10 ppg

pH = 10

Note:
Survey @ 2,728 showed 4.7 degrees
Back reaming half joints, rotating at high speed, and running light WOB to control inclination.
Highest inclination @ 2,821 showed 5.2 degrees



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Com

Drig f/ 3,037' to 3,272'
AROP = 39.2 fph
WOB = 6-12 klbs
TD RPM = 100
GPM = 400
SPP = 1700 psi
MW = 10 ppg
pH = 10

Note:
Back reaming half joints, rotating at high speed, and running light WOB to control inclination.

Drig f/ 3,272' to 3,572'
AROP = 50 fph
WOB = 12-17 klbs
TD RPM = 100
GPM = 400
SPP = 1900 psi
MW = 10 ppg
pH = 11

Note:
Survey @ 3,317 showed 2.5 degrees of inclination
Increased WOB to improve ROP while still controlling inclination

Drig f/ 3,572' to 3,929'
AROP = 59.5 fph
WOB = 17-25 klbs
TD RPM = 100
GPM = 400
SPP = 1900 psi
MW = 10 ppg
pH = 10

Note:
Survey @ 3,805 showed 0.9 degrees of inclination
Increased WOB to improve ROP

Drig f/ 3,929' to 4,303'
AROP = 53.4 fph
WOB = 15 - 17 klbs
TD RPM = 100
GPM = 400
SPP = 1900 psi
MW = 10 ppg
pH = 10

Note:
Survey @ 4,303' showed 0.30 degrees of inclination
Increased WOB to improve ROP

Report Start Date: 2/14/2014

Com

Drig f/ 3,915' to 4,303'
AROP = 55.4 fph
WOB = 17 - 25 klbs
TD RPM = 100
GPM = 400
SPP = 1900 psi
MW = 10 ppg
pH = 10

Note:
Survey @ 4,303' showed 0.30 degrees of inclination
Increased WOB to improve ROP



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Ground Elevation (ft) 3,949.00	Original RKB (ft) 3,962.50	Current RKB Elevation 3,962.50, 1/14/2014		Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Com

Drig f/ 4,303' - 4,553'
AROP = 41.7 fph
WOB = 17 - 20 klbs
TD RPM = 100
GPM = 400
SPP = 1900 psi
MW = 10 ppg
pH = 10

Note:
Survey @ 4,551' showed 0.90 degrees of inclination
Increased WOB to improve ROP

Drig f/ 4,553' - 4,847'
AROP = 49 fph
WOB = 18 - 25 klbs
TD RPM = 85
GPM = 400
SPP = 1900 psi
MW = 10 ppg
pH = 10

Note:
Survey @ 4,801 showed 0.7 degrees of inclination

Drig f/ 4,847' - 5,140'
AROP = 58.6 fph
WOB = 18 - 25 klbs
TD RPM = 85
GPM = 410
SPP = 2000 psi
MW = 10 ppg
pH = 10

Note:
Survey @ 5,049' showed 0.4 degrees of inclination

Report Start Date: 2/15/2014

Com

Drig f/ 5,140' - 5,285'
AROP = 58 fph
WOB = 13 - 25 klbs
TD RPM = 85
GPM = 410
SPP = 2200 psi
MW = 10 ppg
pH = 10

Note:
Survey @ 5,172' showed 0.50 degrees of inclination

Rig Service

Drig f/ 5,285' - 5,439'
AROP = 51.3 fph
WOB = 18 - 25 klbs
TD RPM = 85
GPM = 410
SPP = 2200 psi
MW = 10 ppg
pH = 10

Note:
Survey @ 5,421' showed 1.80 degrees of inclination

Drig f/ 5,439' - 5,700'
AROP = 43.5 fph
WOB = 17 - 19 klbs
TD RPM = 83
GPM = 410
SPP = 2250 psi
MW = 10 ppg
pH = 10



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Ground Elevation (ft) 3,949.00	Original RKB (ft) 3,962.50	Current RKB Elevation 3,962.50, 1/14/2014		Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Com

Drlg f/ 5,700' - 6,007'
AROP = 51.2 fph
WOB = 18- 27 klbs
TD RPM = 90
GPM =410
SPP = 2250 psi
MW = 10 ppg
pH = 10

Drlg f/ 6,007' - 6160
AROP = 25.5 fph
WOB = 15- 20 klbs
TD RPM = 90
GPM =410
SPP = 2250 psi
MW = 10 ppg
pH = 10

Report Start Date: 2/16/2014

Com

Drlg f/ 6160 - 6,182'
AROP = 11 fph
WOB = 20- 30 klbs
TD RPM = 85 to 100
GPM =410
SPP = 2250 psi
MW = 10 ppg
pH = 10

Note:
ROP dropped to 8 to 15 ft hr, decision to trip for bit

Circ sweep out

Trip out f/ bit & motor

Note:
Wellbore slick and taking proper fill to 1,953'

Service rig and Deck Engine

Continue trip out L/D BHA to motor

Break bit & check, found outside cutters flat, found motor very tight, bearing seemed to be rough. Lay down motor pick up bit sub with float & make up

TIH w/ BHA #3 as follows:
7 7/8" PDC Bit (Ulterra U616M)

TIH from surface to 1,500' surface casing shoe to repack swivel

Note:
Decision made to TIH w/ conventional assembly (no mud motor)

Repack swivel packing

TIH hole with BHA #3
f/ 1,500' t/ 3,320'

Report Start Date: 2/17/2014

Com

Service rig

Trip in hole f/ 3,445' to 6137', wash to 6181'

Drlg f/ 6,181' to 6,292'
AROP = 37 fph
WOB = 20- 28 klbs
TD RPM = 85 to 110
GPM =410
SPP = 2250 psi
MW = 10 ppg
pH = 10

Change out rotating head bearing and rubber assembly



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Ground Elevation (ft) 3,949.00	Original RKB (ft) 3,962.50	Current RKB Elevation 3,962.50, 1/14/2014		Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Com

Drig f/ 6,292' 6,499'
AROP = 24.3 fph
WOB = 20- 30 klbs
TD RPM = 85 to 110
GPM =410
SPP = 2250 psi
MW = 10 ppg
pH = 10
WL- 10

Pump sweep, circ hole clean, spot pill on bottom

TOH f/ open hole logs

Report Start Date: 2/18/2014

Com

Continuing to TOH F / 6,499 T/ Surface and lay down tools and BHA.

Clear rig floor

PJSM W/ Halliburton log crew and Ensign.
R/U Lubricator and wireline tools.

Run log#1 f/ 6,499'(TD)

Depth- Logger 6,467'

Casing- Driller 8.625" @ 1,557.0 ft

Casing Logger 1,544.0 ft

Bit Size 7.875 in

Fluid in Hole

Viscosity 10.0 ppg
PH 10.00 ph

R/D logging company logging equipment and clean rig floor.

PJSM W/ Express casing company. R/U CRT, casing running equipment.

Make up shoe track and run production casing as follows:

Float shoe
2 casing joint
Float collar
18 Casing joint L-80
Marker joint
21 Casing joints L-80
Stage tool
128 Casing joint L-80
2 Rock joint
Fluted hanger
landing joint

Land out at 6,494'

Rig Service and lubricate equipment

POOH w/ Casing to place marker joint and DV tool in proper place due to mis-communication.

Held PJSM W/ Express crew, Run in hole w/ 5-1/2" Casing f/ 726'
t/ 4,575'

Report Start Date: 2/19/2014

Com

RIH W/5,5 CSG F/ 4,575' T/ 5,032'

CIRC B/U @ 5,032'

RIH W/5,5 CSG F/ 5,032' T/ 6,484'

Set Landing Joint

Circulate and Condition mud
Waiting on Halliburton truck pump

Circulate and Condition mud
Waiting on Halliburton truck pump



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Well Name NEW MEXICO STATE 'AN' 014		Lease New Mexico 'AN' State	Field Name Vacuum	Business Unit Mid-Continent	
Ground Elevation (ft) 3,949.00	Original RKB (ft) 3,962.50	Current RKB Elevation 3,962.50, 1/14/2014		Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Report Start Date: 2/20/2014

Com

CIRC & COND... While waiting on Halliburton truck.

Rig up Halliburton cement equipment and cement head.

Note: Have safety meeting with all Chevron, Ensign, Weatherford DV Tool hand and Halliburton employees on location over rig up cement equipment and pumping cement job.

Pressure test lines to 3000 psi

Pump 20 bbl Gel spacer

Mix and pump 181 bbls (590 sxs) of VersaCem lead cement at 13 ppg

Drop top plug and displace cmt w/178.5 bbls of brine water

final circulating pressure 860 psi

Bump pressure 1154 psi

Bleed off pressure- floats held

flow back 1 bbl

Note: did not get cement to surface

Drop dart and wait 25 min to get to DV Tool.

Activate tool with 632 psi.

Circulated 300 bbls

Note did not get cement to surface.

Tool opened at 632 psi

Perform second stage cement job as follows:

Pump 20 bbl Gel spacer

Mix and pump 273 bbls (755 sxs) of EconoCem lead cement at 12.5 ppg

Mix and pump 177 bbls (640 sxs) of VersaCem lead cement at 13.5 ppg

Drop top plug and displace cmt w/104.7 bbls of fresh water.

Bumped plug at FCP of 680 psi and went 1500 psi over and held for 5 min. Bleed back 1 bbl

Rig down cement equipment and CRT

Set BPV and packoff

Note Test: T/3000 psi and hold for 30 min

Nipple Down

Note: have safety meeting with all Chevron, Ensign and Man Welding crew over nipple down stack/install well head.

Nipple Down BOP

Install Production Tubing Head and test to 3000 psi and hold for 30 min.

Clean pits,

Rig released at 2400



Casing Summary

Well Name NEW MEXICO STATE 'AN' 014		Lease New Mexico 'AN' State		Field Name Vacuum		Business Unit Mid-Continent	
Ground Elevation (ft) 3,949.00	Original RKB (ft) 3,962.50	Current RKB Elevation 3,962.50, 1/14/2014				Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Surface, Planned?-N, 1,557ftKB

Set Depth (MD) (ftKB) 1,557		Set Tension (kips)		String Nominal OD (in) 8 5/8		String Min Drift (in) 7.969		Centralizers 14		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Landing Joint	8 5/8	8.094	24.00	J-55		-3	13	15.75		
37	Casing Joint	8 5/8	8.094	24.00	J-55		13	1,438	1,425.27		
2	Casing Joint	8 5/8	8.094	24.00	J-55		1,438	1,516	77.39	2,950.0	1,370.0
1	Float Collar	8 5/8	8.094				1,516	1,517	1.20		
1	Casing Joint	8 5/8	8.094	24.00	J-55		1,517	1,555	38.71	2,950.0	1,370.0
1	Float Shoe	8 5/8	8.094				1,555	1,557	1.54		

Production Casing, Planned?-N, 6,494ftKB

Set Depth (MD) (ftKB) 6,494		Set Tension (kips)		String Nominal OD (in) 5 1/2		String Min Drift (in)		Centralizers 59		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
0	Pup Joint	5 1/2	4.892	17.00	L-80		0	0	0.00		6,280.0
1	Landing Joint	5 1/2	4.892				0	14	13.50		
1	Fluted Hanger	5 1/2	4.892				14	18	4.00		
0	Casing Joint	5 1/2	4.892	17.00	L-80		18	18	0.00		
2	Flint Coated	5 1/2	4.892	17.00	L-80		18	94	76.07		
0	Pup Joint	5 1/2	4.892	17.00	L-80		94	94	0.00		6,280.0
12	Casing Joint	5 1/2	4.892	17.00	L-80		94	4,961	4,867.68		
8											
1	Stage Tool	5 1/2	4.892				4,961	4,964	2.50		
21	Casing Joint	5 1/2	4.892	17.00	L-80		4,964	5,763	799.04		
1	Casing Pup Joint	5 1/2	4.892	17.00	L-80		5,763	5,768	4.70		
17	Casing Joint	5 1/2	4.892	17.00	L-80		5,768	6,414	646.92		
1	Float Collar	5 1/2	4.892				6,414	6,416	1.10		
2	Casing Joint	5 1/2	4.892	17.00	L-80		6,416	6,492	76.92		6,280.0
1	Float Shoe	5 1/2	4.982				6,492	6,494	1.51		

HOBBS OCD

JUN 16 2014

RECEIVED



Cement Summary

HOBBS OCD

Production Casing Cement

Well Name NEW MEXICO STATE 'AN' 014		Lease New Mexico 'AN' State		Field Name Vacuum JUN 16 2014		Business Unit Mid-Continent	
Ground Elevation (ft) 3,949.00	Original RKB (ft) 3,962.50	Current RKB Elevation 3,962.50, 1/14/2014				Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Original Hole				RECEIVED			
Wellbore Name		Directional Type		Kick Off Depth (ftKB)		Vertical Section Direction (*)	
Original Hole		Vertical				0.00	
Hole Size (in)		Act Top (ftKB)			Act Btm (ftKB)		
12 1/4		13.5			1,565.0		
7 7/8		1,565.0			6,499.0		

VG-Convention, Vetco Grey on 2/20/2014 16:30							
Type VG-Convention				Install Date 2/20/2014			
Des	Make	Model	WP (psi)	Service	SN		

Surface, Planned?-N, 1,557ftKB										
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)
Surface		Original Hole		2/11/2014		1,557		2.9		
Centralizers						Scratchers				
14										
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Landing Joint	8 5/8	8.094	24.00	J-55			15.75	-3	13
37	Casing Joint	8 5/8	8.094	24.00	J-55			1,425.27	13	1,438
2	Casing Joint	8 5/8	8.094	24.00	J-55			77.39	1,438	1,516
1	Float Collar	8 5/8	8.094					1.20	1,516	1,517
1	Casing Joint	8 5/8	8.094	24.00	J-55			38.71	1,517	1,555
1	Float Shoe	8 5/8	8.094					1.54	1,555	1,557

Production Casing, Planned?-N, 6,494ftKB										
Casing Description		Wellbore		Run Date		Set Depth (MD) (ftKB)		Stick Up (ftKB)		Set Tension (kips)
Production Casing		Original Hole		2/19/2014		6,494		-0.1		
Centralizers						Scratchers				
59										
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
0	Pup Joint	5 1/2	4.892	17.00	L-80			0.00	0	0
1	Landing Joint	5 1/2	4.892					13.50	0	14
1	Fluted Hanger	5 1/2	4.892					4.00	14	18
0	Casing Joint	5 1/2	4.892	17.00	L-80			0.00	18	18
2	Flint Coated	5 1/2	4.892	17.00	L-80			76.07	18	94
0	Pup Joint	5 1/2	4.892	17.00	L-80			0.00	94	94
128	Casing Joint	5 1/2	4.892	17.00	L-80			4,867.68	94	4,961
1	Stage Tool	5 1/2	4.892					2.50	4,961	4,964
21	Casing Joint	5 1/2	4.892	17.00	L-80			799.04	4,964	5,763
1	Casing Pup Joint	5 1/2	4.892	17.00	L-80			4.70	5,763	5,768
17	Casing Joint	5 1/2	4.892	17.00	L-80			646.92	5,768	6,414
1	Float Collar	5 1/2	4.892					1.10	6,414	6,416
2	Casing Joint	5 1/2	4.892	17.00	L-80			76.92	6,416	6,492
1	Float Shoe	5 1/2	4.982					1.51	6,492	6,494

Production Casing Cement, Casing, 2/20/2014 03:30									
Cementing Start Date 2/20/2014				Cementing End Date 2/20/2014				Wellbore Original Hole	
Evaluation Method Returns to Surface			Cement Evaluation Results						
Comment									

1, 4,961.0-6,499.0ftKB											
Top Depth (ftKB) 4,961.0		Bottom Depth (ftKB) 6,499.0		Full Return? N		Vol Cement Ret (bbl) 30.0		Top Plug? N		Bottom Plug? Y	
Initial Pump Rate (bbl/min) 5		Final Pump Rate (bbl/min) 1.5		Avg Pump Rate (bbl/min) 3		Final Pump Pressure (psi) 942.0		Plug Bump Pressure (psi) 1,492.0			
Pipe Reciprocated? N		Reciprocation Stroke Length (ft)		Reciprocation Rate (spm)		Pipe Rotated? N		Pipe RPM (rpm)			
Depth Tagged (MD) (ftKB)		Tag Method		Depth Plug Drilled Out To (ftKB)		Drill Out Diameter (in)		Drill Out Date			



Cement Summary

Production Casing Cement

Well Name NEW MEXICO STATE 'AN' 014		Lease New Mexico 'AN' State		Field Name Vacuum		Business Unit Mid-Continent	
Ground Elevation (ft) 3,949.00	Original RKB (ft) 3,962.50	Current RKB Elevation 3,962.50, 1/14/2014				Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Lead

Fluid Type Lead	Fluid Description	Quantity (sacks) 230	Class C	Volume Pumped (bbl) 52.4
Estimated Top (ftKB) 4,961.0	Estimated Bottom Depth (ftKB) 5,750.0	Percent Excess Pumped (%) 90.0	Yield (ft³/sack) 1.28	Fluid Mix Ratio (gal/sack) 5.45
Free Water (%)	Density (lb/gal) 14.40	Zero Gel Time (lb/100ft²)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type Tail	Fluid Description	Quantity (sacks) 140	Class C	Volume Pumped (bbl) 33.4
Estimated Top (ftKB) 5,750.0	Estimated Bottom Depth (ftKB) 6,499.0	Percent Excess Pumped (%) 90.0	Yield (ft³/sack) 1.34	Fluid Mix Ratio (gal/sack) 5.76
Free Water (%)	Density (lb/gal) 14.40	Zero Gel Time (lb/100ft²)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

2, 1,802.0-4,961.0ftKB

Top Depth (ftKB) 1,802.0	Bottom Depth (ftKB) 4,961.0	Full Return? N	Vol Cement Ret (bbl) 0.0	Top Plug? N	Bottom Plug? Y
Initial Pump Rate (bbl/min) 5	Final Pump Rate (bbl/min) 3	Avg Pump Rate (bbl/min) 4	Final Pump Pressure (psi) 1,080.0	Plug Bump Pressure (psi) 2,780.0	
Pipe Reciprocated? N	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated? N	Pipe RPM (rpm)	
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date	

Tail

Fluid Type Tail	Fluid Description	Quantity (sacks) 130	Class C	Volume Pumped (bbl) 125.0
Estimated Top (ftKB) 4,461.0	Estimated Bottom Depth (ftKB) 4,961.0	Percent Excess Pumped (%) 100.0	Yield (ft³/sack) 1.38	Fluid Mix Ratio (gal/sack) 6.35
Free Water (%)	Density (lb/gal) 14.80	Zero Gel Time (lb/100ft²)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type Lead	Fluid Description	Quantity (sacks) 640	Class C	Volume Pumped (bbl) 236.0
Estimated Top (ftKB) 1,160.0	Estimated Bottom Depth (ftKB) 4,461.0	Percent Excess Pumped (%) 100.0	Yield (ft³/sack) 2.08	Fluid Mix Ratio (gal/sack) 11.34
Free Water (%)	Density (lb/gal) 12.50	Zero Gel Time (lb/100ft²)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc