

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

State of New Mexico
Energy, Minerals and Natural Resources

OIL 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. 30-025-41356
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐ HOBBS OCD		5. Indicate Type of Lease STATE ☒ FEE ☐
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 CENTRAL VACUUM UNIT
4. Well Location Unit Letter: L 1930 feet from SOUTH line and 645 feet from the WEST line Section 6 Township 18S Range 35E NMPM County LEA		8. Well Number 211
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3985' GL		9. OGRID Number 4323
		10. Pool name or Wildcat VACUUM; GRAYBURG SAN ANDRES

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: DRILL NEW WELL

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.

10-10-13: SPUD WELL @ 1600 HRS.

10-11-13: DRILL 80-961,1464.

10-12-13: RAN 11 3/4" H-40 42# STC SURF CSG - SET @ 1464. CMT W/1035 SX CMT. RTRN 121 BBLS CMT TO SURF.

10-13-13: DRILL 1467-2771,3129.

10-16-13: RAN 8 5/8" 32# J-5 LTC CSG - SET @ 3129. CMT W/750 SX CMT. RTRN 25 BBLS CMT TO SURF.

10-17-13: DRILL 3129-3207, 3510, 3603, 3658, 3703, 3748, 3793, 3823, 3928, 3948, 4050, 4071, 4108, 4137, 4330, 4363, 4373, 4403, 4423, 4458, 4514, 4564, 4575, 4585, 4599, 4601, 4650, 4670, 4890, 4895, 4980, 5203, 5226, TD (10-21-13)

10-22-13: RAN 5 1/2" 17# J-5 LTC CSG - SET @ 5226. CMT W/1150 SX CMT. RTRN 43 BBLS CMT TO SURF.

10-22-13: RELEASE RIG.

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 

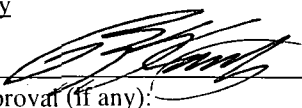
TITLE REGULATORY SPECIALIST

DATE 12/17/2013

Type or print name DENISE PINKERTON
For State Use Only

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

APPROVED BY: 
Conditions of Approval (if any):

TITLE Petroleum Engineer

DATE DEC 30 2013

DEC 30 2013



Summary Report

Drill
Drill and Suspend
Job Start Date: 10/8/2013
Job End Date: 10/23/2013

Well Name CENTRAL VACUUM UNIT 211		Lease Central Vacuum Unit	Field Name Vacuum	Business Unit Mid-Continent	
Ground Elevation (ft) 3,985.00	Original RKB (ft) 4,003.50	Current RKB Elevation 4,003.50, 9/17/2013		Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Report Start Date: 10/8/2013

Com

Load & Move H&P 356 From VGSAU 247w to the CVU 211, Spot Camp & R/U, Spot Mud Tanks, Mud Pumps, Shakers

Waiting on daylight to finish moving equipment on location

Report Start Date: 10/9/2013

Com

Wait on day light

Held PJSM With Chevron, Petro Safety, H&P Rig Crew & H&P Trucking, Identified & Eliminated Hazards Involved In, Rig Move

Spot Mud Tanks, Mud Pumps, Shakers, R/U Same, Spot VFD, Gen Package, Diesel Tank, Parts House, Spot Subs, Pin Derrick, Raise Derrick, Installed Center Steel, Raise Sub, Plug In Electric Wires, Scope Out Derrick, Drive Ground Rods, R/U Misc.

R/U front & back yard components, run all electric wires, power up motors & drawworks, undock top drive, dress rig floor & misc equipment,

Continue to R/U back yard componenets, spool up drawworks & misc equipmen

Report Start Date: 10/10/2013

Com

R/U Flare lines, change out saver sub, Dress rig floor & misc equipment, install ground rod. L/O 14 3/4" surface hole BHA

Strap & caliper 14 3/4" surface hole BHA, R/U Q Max equipment. Install conductor pipe. Perform rig inspections, organize all tools and equipment. Address action items from pre-spud inspection.

Review JSA for making up BHA

P/U BHA #1 as follow

14 3/4" PDC bit Halliburton MM65D

8" Mud motor .22 rev/gals

TIH and tag at 80'

** Spud well @ 16:00

Drill 14 3/4" Surface hole section from 80' to 961'. Pumping high vis sweeps every 90'.

AROP = 125 FPH

WOB = 10 - 12 Klbs

TD RPM = 140

Motor RPM = 160

GPM = 727

SPP = 2000 psi

Torque 3.4 Kft*lbs

Differential = 240 psi

Attempt to survey @ 961' teledrift would not pump up survey. Change out line to sensor. Attempt to pump up survey with no success.

Report Start Date: 10/11/2013

Com

R/U H&P wireline

Wireline survey @ 840' 3.1

Circulate and work pipe while repairing #2 mud pump

Drill 14 3/4" Surface hole section from 961' to 1,464'. Pumping high vis sweeps every 90'.

AROP = 67 FPH

WOB = 10 - 14 Klbs

TD RPM = 140

Motor RPM = 160

GPM = 727

SPP = 2000 psi

Torque 3.4 Kft*lbs

Differential = 240 psi

Circulate and Condition hole, pump 2, 40bbl hi vis sweeps

TOH to surface

L/D Bit & motor

Hole pulled slick

Took proper fill

Clean rig floor

Rig service - level derrick

PJSM over R/U H&P 11 3/4" CRT. R/U Franks casing crew tools & equipment.

R/U 11 3/4" H&P CRT. R/U Franks casing crew tools & equipment

Run 11 3/4" 42# H-40 surface casing to 1,147'

Report Start Date: 10/12/2013

Com

Continue running 11 3/4" H-40 42# STC surface casing from 1147' to 1464', Washed last two joints as per drilling procedure

Circulate 1 1/2 casing volume



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Ground Elevation (ft) 3,985.00	Original RKB (ft) 4,003.50	Current RKB Elevation 4,003.50, 9/17/2013		Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Com					
Continue circulating while having Safety meeting with Halliburton, Chevron, Petro Safety & H&P crew on R/U cement iron & pumping cmt schedule.					
R/U Halliburton cmt head and pumping iron					
Test lines to 3400 psi, Cement per Halliburton pump schedule. Displace 160 bbls of FW. Bumped plug and held 1050 psi for 5 minutes (FCP=504 psi), test good. Checked floats, bled back 1 bbl. Full returns throughout the job. Returned 121 bbls of cement to surface.					
	bbls	sacks	bpm	wt. (ppg)	
Spacer	20	n/a	3	8.4	
Lead	200	610	5	12.9	1005 AX
Tail	101	425	5	14.8	
Disp.	168	n/a	6	8.4	
R/D Halliburton CMT head & iron, flush through surface lines and conductor, nipple down conductor					
Cut conductor and casing, lay out casing and conductor, make final cut on 11 3/4" surface casing to prep for wellhead					
Install MB-260 wellhead, weld & test to 850 psi, test held					
Install spacer spool & BOP, Torque bolts with Manns nipple up crew, intalled choke line, koomey lines, fill-up line, drain hose, flowline, trip nipple & turnbuckles, center stack					
PJSM, R/D H&P CRT & 2-Point draw works					
PJSM with Chevron, Manns Welding & H&P crew on testing BOPE					
Test BOPE, choke manifold to 250psi low and 3000psi high, 250psi low and 1500psi high on hydrill.					
Test casing to 1500psi for 30 minutes and record on chart					
Test accumulator & back up bottles,					
Review JSA over P/U BHA 10 5/8" Intermediate BHA,					
P/U 10 5/8" intermediate BHA, TIH to 676'.					
Service rig, Level Derrick					
Report Start Date: 10/13/2013					
Com					
P/U BHA from 676' to 1,413'.					
Perform choke drill while displacing 10ppg brine					
Drill cement & float equipment from 1,413 to 1,467'.					
Float collar @ 1,424'					
Float shoe @ 1,464'					
Drill 10 5/8" intermediate hole section from 1,467' to 2,771'. Pumping high vis sweeps every 90'.					
AROP = 100 FPH					
WOB = 8 - 18 Klbs					
TD RPM = 120					
Motor RPM = 139					
GPM = 633					
SPP = 2075 psi					
Torque 5.4 Kft*lbs					
Differential = 520 psi					
Service rig					
Drill 10 5/8" intermediate hole section from 2,771' to 3,129'. Pumping high vis sweeps every 90'.					
AROP = 89 FPH					
WOB = 8 - 18 Klbs					
TD RPM = 120					
Motor RPM = 139					
GPM = 633					
SPP = 2075 psi					
Torque 5.4 Kft*lbs					
Differential = 520 psi					
Pump 3 40bbls sweeps circ hole clean.					
Flow check - well flowing @ 7.1bbls hr					
Circ bottoms up @ reduce rate 400 gpm					
Report Start Date: 10/14/2013					
Com					
Flow check - well flow @ 7bbls hr					
Shut well in monitor pressures for 30min. SICP 0 psi. Open choke & flow check - well static.					
Spot 40bbl 12ppg heavy weighted pill					
Drop gyro, TOH with 10 5/8" production hole BHA. to 2,700'					
Flow check - well flowing @ 7bbls					
TIH to 3,129'					



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Com	
Displace well bore 10ppg brine with 11ppg mud	
Flow check - well flowing @ 4bbls hr.	
Shut in well, monitor pressure SIDPP 125 psi, SICP 175 psi	
Transferring 11ppg mud to mud system.	
Circ bottom up through choke @ 5300 stks	
Monitor well while raising mw to 11.6ppg	
Pump 11.6ppg kill mud. shut down pumps monitor pressures SIDPP 300 psi, SICP 300 psi.	
Open well circ bottoms up.	
Monitor well on trip tank well flowing @ 7bbls hr.	
Circ & condition mud.	
Report Start Date: 10/15/2013	
Com	
TOH from 3218' to 1,464'	
Spot 15ppg pill at the shoe 1,464'.	
Continue TOH from 1464' to 312'	
Pull wear bushing	
L/D BHA, motor and bit	
Clean rig floor.	
Rig service	
PJSM with H&P crew for R/U 8 5/8" CRT and casing handling equipment. Calibrate TD and drawworks.	
R/U 8 5/8" CRT and casing handling equipment.	
PJSM with H&P CRT rep and crew. TIH with 8 5/8" 32# J-55 Intermediate casing to 2620'. C/O 6 joints due cross threading the joints.	
Report Start Date: 10/16/2013 <i>Enter CS</i>	
Com	
Run 8 5/8" 32 # J-55 LTC from 2496' to 3119' Note: Tag bottom @ 3129'.	
Circ 1 1/2 times casing volume with tag joint. Held PJSM with CVX Petro safety, H&P & Halliburton over R/U cement equipment & cementing	
R/U Halliburton cement equipment. L/D tag joint. P/U hanger, landing joint. Install cement head	
Test lines to 4000 psi. Cement per Halliburton pump schedule. Displace 186 bbls of FW. Bumped plug and held 1547 psi for 5 minutes (FCP=940 psii), test good. Checked floats, bled back 1 bbls. Full returns throughout the job. Returned 25 bbls of cement to surface. Inflate ECP with 2400 psi ECP set @ 1346'	
Held PJSM over R/D cement equipment. R/D cement equipment. Back out L/D landing joint.	
Review JSA, R/D CRT & Casing equipment. Calibrate drawworks	
Set pack off & test to 2000 psi. good test.	
PJSM with Scientific Dilling Gyro for R/U wireline Gyro. R/U Scientific Dilling Gyro wireline	
RIH Scientific Dilling Gyro	
PJSM w/ Scientific Dilling wireline for wireline R/D	
Install wear bushing.	
Service Rig.	
Lay out and strap Directional BHA. Review JSA P/U M/U Directional tools. Scribe & test tool. Pick BHA # 3 as follows: 7 7/8" PDC bit MM65M Halliburton 6 1/2" Motor, Bend 1.5 .34 rev/gals 6 1/2" NMDC 6 9/16" Pulser sub 6 1/2" Flex joint 10, 6 1/2" DC 4, 4 1/2" HWDP 61/2" Jar 10, 4 1/2" HWDP 6 1/2" X-O	
TIH to @ 1435'	
Change hydraulic hose on pipe wrangler(the hose on the pipe wrangler hydraulic pump).	
TIH, tag cement @ 3044'	
Pull trip nipple. Install rotating head.	
Displace FW with 10ppg Brine.	
Test casing to 1500 psi for 30 min.	
Report Start Date: 10/17/2013	
Com	
Conduct choke drill.	
Drill cement & FE to 3129	
Rotate Drill 7 7/8" hole section from 3,129' to 3,207' AROP 52FPH, WOB 10 Klbs, TD RPM 50, SPM 140, Motor RPM 111, GPM 328, SPP 1150 psi, Torque 2-4 Kft*lbs Differential 400 psi	
Slide Drill 7 7/8" hole section from 3,207' to 3,510' AROP 26FPH, WOB 5 Klbs, TD RPM 0, SPM 140, Motor RPM 111, GPM 328, SPP 1100 psi, Torque 0 Kft*lbs Differential 300 psi	
Rotate Drilling 7 7/8" hole section from 3,510' to 3,603' AROP 46FPH, WOB 8 Klbs, TD RPM 60, SPM 160, Motor RPM 127, GPM 375, SPP 1290 psi, Torque 5 Kft*lbs Differential 400 psi	



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Com					
Slide Drill 7 7/8" hole section from 3,603' to 3,658' AROP 55 FPH, WOB 13 Klbs, TD RPM 0, SPM 160, Motor RPM 127, GPM 376, SPP 1353 psi, Torque 0 Kft*lbs Differential 177 psi					
Rotate Drill 7 7/8" hole section from 3,658' to 3,703' AROP 45 FPH, WOB 14 Klbs, TD RPM 64, SPM 160, Motor RPM 127, GPM 375, SPP 1590 psi, Torque 5 Kft*lbs Differential 400 psi					
Service rig					
Slide Drill 7 7/8" hole section from 3,703' to 3,748' AROP 45FPH, WOB 13 Klbs, TD RPM 0, SPM 140, Motor RPM 111, GPM 328, SPP 1100 psi, Torque 0 Kft*lbs Differential 300 psi					
Rotate Drilling 7 7/8" hole section from 3,748' to 3,793' AROP 90FPH, WOB 14 Klbs, TD RPM 60, SPM 160, Motor RPM 127, GPM 375, SPP 1300 psi, Torque 5 Kft*lbs Differential 400 psi					
Circulare and displace hole w/11ppg 43vis mud					
Slide Drill 7 7/8" hole section from 3,793' to 3,823' AROP 45FPH, WOB 14 Klbs, TD RPM 0, SPM 140, Motor RPM 111, GPM 328, SPP 1100 psi, Torque 0 Kft*lbs Differential 300 psi					
Report Start Date: 10/18/2013					
Com					
Rotate Drill 7 7/8" hole section from 3,823' to 3,928 AROP 45 FPH, WOB 14 Klbs, TD RPM 64, SPM 160, Motor RPM 127, GPM 375, SPP 1590 psi, Torque 5 Kft*lbs Differential 400 psi					
Slide Drill 7 7/8" hole section from 3,928' to 3948' AROP 26FPH, WOB 5 Klbs, TD RPM 0, SPM 140, Motor RPM 111, GPM 328, SPP 1100 psi, Torque 0 Kft*lbs Differential 300 psi					
Rotate Drilling 7 7/8" hole section from 3948' to 4050' AROP 46FPH, WOB 8 Klbs, TD RPM 60, SPM 160, Motor RPM 127, GPM 375, SPP 1290 psi, Torque 5 Kft*lbs Differential 400 psi					
Slide Drill 7 7/8" hole section from 4050' to 4071' AROP 55 FPH, WOB 13 Klbs, TD RPM 0, SPM 160, Motor RPM 127, GPM 376, SPP 1353 psi, Torque 0 Kft*lbs Differential 177 psi					
Rotate Drill 7 7/8" hole section from 4071' to 4108' AROP 45 FPH, WOB 14 Klbs, TD RPM 64, SPM 160, Motor RPM 127, GPM 375, SPP 1590 psi, Torque 5 Kft*lbs Differential 400 psi					
Slide Drill 7 7/8" hole section from 4108' to 4137' AROP 45FPH, WOB 13 Klbs, TD RPM 0, SPM 140, Motor RPM 111, GPM 328, SPP 1100 psi, Torque 0 Kft*lbs Differential 300 psi					
Rotate Drilling 7 7/8" hole section from 4137' to 4330' AROP 90FPH, WOB 14 Klbs, TD RPM 60, SPM 160, Motor RPM 127, GPM 375, SPP 1300 psi, Torque 5 Kft*lbs Differential 400 psi					
Slide Drill 7 7/8" hole section from 4330' to 4363' AROP 45FPH, WOB 14 Klbs, TD RPM 0, SPM 140, Motor RPM 111, GPM 328, SPP 1100 psi, Torque 0 Kft*lbs Differential 300 psi					
Rotate Drilling 7 7/8" hole section from 4363' to 4373' AROP 46FPH, WOB 8 Klbs, TD RPM 60, SPM 160, Motor RPM 127, GPM 375, SPP 1290 psi, Torque 5 Kft*lbs Differential 400 psi					
Slide Drill 7 7/8" hole section from 4373' to 4403' AROP 55 FPH, WOB 13 Klbs, TD RPM 0, SPM 160, Motor RPM 127, GPM 376, SPP 1353 psi, Torque 0 Kft*lbs Differential 177 psi					
Rotate Drilling 7 7/8" hole section from 4403' to 4423' AROP 46FPH, WOB 8 Klbs, TD RPM 60, SPM 160, Motor RPM 127, GPM 375, SPP 1290 psi, Torque 5 Kft*lbs Differential 400 psi					
Slide Drill 7 7/8" hole section from 4423' to 4458' AROP 55 FPH, WOB 13 Klbs, TD RPM 0, SPM 160, Motor RPM 127, GPM 376, SPP 1353 psi, Torque 0 Kft*lbs Differential 177 psi					
Service rig					
Rotate Drilling 7 7/8" hole section from 4,458' to 4514' AROP 46FPH, WOB 8 Klbs, TD RPM 60, SPM 160, Motor RPM 127, GPM 375, SPP 1290 psi, Torque 5 Kft*lbs Differential 400 psi					
Slide Drill 7 7/8" hole section from 4514' to 4564' AROP 55 FPH, WOB 13 Klbs, TD RPM 0, SPM 160, Motor RPM 127, GPM 376, SPP 1353 psi, Torque 0 Kft*lbs Differential 177 psi					
Change springs on MP#2.					
Slide Drill 7 7/8" hole section from 4,564' to 4575' AROP11 FPH, WOB 20 Klbs, TD RPM 0, SPM 160, Motor RPM 127, GPM 376, SPP 200 0psi, Torque 0 Kft*lbs Differential 177 psi					
Report Start Date: 10/19/2013					
Com					
Slide Drill 7 7/8" hole section from 4575' to 4585' AROP 20 FPH, WOB 20 Klbs, TD RPM 0, SPM 160, Motor RPM 127, GPM 376, SPP 2000 psi, Torque 0 Kft*lbs Differential 177 psi					
Rotate Drilling 7 7/8" hole section from 4,585' to 4599' AROP 46FPH, WOB 20 Klbs, TD RPM 60, SPM 160, Motor RPM 127, GPM 375, SPP 2100 psi, Torque 5 Kft*lbs Differential 400 psi					
Clean trash from MP#2.					
Slide Drill 7 7/8" hole section from 4,599' to 4,601' AROP11 FPH, WOB 30 Klbs, TD RPM 0, SPM 160, Motor RPM 127, GPM 376, SPP 200 0psi, Torque 0 Kft*lbs Differential 177 psi					
Circulate sweep around.					
Back ream 4 joints to second kick off point 4,425'.					
Flow ccheck well flow @ 2 bbls hr went to static in 30 mins					
TOH from 4425' to 800' @ 75 fph Note Hole took proper fill					
Pull rotating head. Install trip nipple					



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Ground Elevation (ft) 3,985.00	Original RKB (ft) 4,003.50	Current RKB Elevation 4,003.50, 9/17/2013		Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Com

TOH from 800' to surface. L/D BHA, motor & bit Note Hole took proper fill Clean rig floor

Lay out and strap Directional BHA. Review JSA P/U M/U Directional tools. Scribe & test tool. Pick BHA # 4 as follows: 7 7/8" PDC bit MM65M Halliburton 6 1/2" Motor, Bend 1.5 .34 rev/gals 6 1/2" NMDC 6 9/16" Pulser sub 6 1/2" Flex joint 40, 4 1/2" HWDP 6 1/2" Jar, 10, 6 1/2" DCX-O

Service rig

TIH from 800' to 4601'. wash down last two joint for safety.

Slide Drill 7 7/8" hole section from 4,601' to 4,650' AROP 20 FPH, WOB 8 Klbs, TD RPM 0, SPM 160, Motor RPM 127, GPM 376, SPP 2000psi, Torque 0 Kft*lbs Differential 177 psi

Report Start Date: 10/20/2013

Com

Rotate Drill 7 7/8" hole section from 4650' to 4670' AROP 20 FPH, WOB 10 Klbs, TD RPM 64, SPM 160, Motor RPM 127, GPM 375, SPP 2000 psi, Torque 5 Kft*lbs Differential 400 psi

Slide Drill 7 7/8" hole section from 4670' to 4890' AROP 22 FPH, WOB 10 Klbs, TD RPM 0, SPM 140, Motor RPM 111, GPM 328, SPP 2000 psi, Torque 0 Kft*lbs Differential 300 psi

Rotate Drilling 7 7/8" hole section from 4890' to 4895' AROP 30 FPH, WOB 10 Klbs, TD RPM 60, SPM 160, Motor RPM 127, GPM 375, SPP 2000 psi, Torque 5 Kft*lbs Differential 400 psi

Slide Drill 7 7/8" hole section from 4895' to 4980' AROP 34 FPH, WOB 14 Klbs, TD RPM 0, SPM 140, Motor RPM 111, GPM 328, SPP 2000 psi, Torque 0 Kft*lbs Differential 300 psi

Rotate Drilling 7 7/8" hole section from 4980' to 5,203' AROP 46FPH, WOB 8 Klbs, TD RPM 60, SPM 160, Motor RPM 127, GPM 375, SPP 1290 psi, Torque 5 Kft*lbs Differential 400 psi

* Encountered losses at 4,980' @ a rate of 60bbl/hr. added LCM(Paper, Pluggit, & Baroseal) to active system at 14 lb/bbl. Losses decrease to 30 bbl/hr @ 5100'.

Circulate at 2bbl/min. while building mud & circulating LCM at a concentration of 14 lb/bbl. Losses decrease to 10 bbl/hr. Build 200 bbl of mud.

Report Start Date: 10/21/2013

Com

Rotate Drill 7 7/8" hole section from 5,203' to 5,226' AROP 57 FPH, WOB 20 Klbs, TD RPM 70, SPM 200, Motor RPM 160, GPM 471, SPP 2200 psi, Torque 5 Kft*lbs Differential 456 psi

Circualte hole clean.

Flow check - No Flow

Spot 30 bbl LCM (Paper, Pluggit, & Baroseal) 14 lb/bbl. On bottom (5226' to 4726').

Pick up off bottom pulled tight, back ream from 5,226' to 4,900'

TOH from 4,900' to 3,050' Note: Hole took proper fill. Hole pulled slick.

Flow check - well static. Note: Pull rotating head, install trip nipple.

TOH from 3,200' to 800' Note: Pump slug. Hole took proper fill. Hole pull slick.

L/D 7 7/8" production hole BHA, Directional tools, motor & bit. Clean rig floor Pull wear bushing Note: Hole pull slick. Hole took proper fill.

Pull wear bushing. Clean and clear rig floor.

Rig service

Review JSA for R/U CRT,

R/U CRT & casing equipment. Calibrate drawworks

Rerview JSA for running 5 1/2" production casing.

M/U Shoe track with thread circ to test floats. RIH with 5 1/2" 17# J-55 LTC To 3,100'

Circulate B/U at the 3,100' (Intermediate shoe @ 3,119').

Continue to RIH with 5 1/2" 17# J-55 LTC To 3,300' at RPT.

Report Start Date: 10/22/2013

Com.

Run 5 1/2" from 5,216' tag bottom @ 5,226'.

Held PJSM with Halliburton, H&P,CVX, Petro safety over R/U cement equip. & cementing while circ 1 1/2 casing volume. L/D down tag jt. P/U hanger & land casing.

R/U halliburton cement head.

Test lines to 4000 psi, Cement per Halliburton pump schedule. Displace 1119 bbls of FW. Bumped plug @ 2270 psi, pumped 500psi over held for 5 minutes (FCP 2825psi), Checked floats (held), inflated ECP @3200psi, bled back 1.5bbl. Full returns throughout the job. Returned 43 bbls of cement to surface. Flush lines

Flush trough BOP's, shaker, manifold, and RD Halliburton cement

LD landing joint & RD H&P CRT

Clean pits, install BPV, packoff, and test to 5000psi

PJSM w/mann ND crew. Remove flow line, choke line, kill line, fill up line, trip nipple, accumulator lines, break bolts on BOP, spool, and LD

Install tubing head & test to 4000 psi. Release rig @ 12:00



Casing Summary

Well Name CENTRAL VACUUM UNIT 211		Lease Central Vacuum Unit		Field Name Vacuum		Business Unit Mid-Continent	
Ground Elevation (ft) 3,985.00	Original RKB (ft) 4,003.50	Current RKB Elevation 4,003.50, 9/17/2013				Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Conductor, Planned?-N, 80ftKB

Set Depth (MD) (ftKB) 80		Set Tension (kips)		String Nominal OD (in) 16		String Min Drift (in) 14.500		Centralizers		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)
2	Casing Joint	16	14.687	109.00	J-55		0	80	80.00	3,950.0	2,560.0

Surface, Planned?-N, 1,465ftKB

Set Depth (MD) (ftKB) 1,465		Set Tension (kips)		String Nominal OD (in) 11 3/4		String Min Drift (in) 10.938		Centralizers 10		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)
37	Casing Joint	11 3/4	11.094	42.00	H-40		18	1,422	1,403.90		
1	Float Collar	11 3/4	11.094	42.00	H-40		1,422	1,424	1.38		
1	Casing Joint	11 3/4	11.094	42.00	H-40		1,424	1,463	39.53		
1	Guide Shoe	11 3/4	11.094	42.00	H-40		1,463	1,465	1.75	1,980.0	1,040.0

Intermediate Casing 1, Planned?-N, 3,126ftKB

Set Depth (MD) (ftKB) 3,126		Set Tension (kips)		String Nominal OD (in) 8 5/8		String Min Drift (in)		Centralizers 28		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	Hanger	8 5/8	7.921	32.00	J-55		18	19	1.00		
1	Pup Joint	8 5/8	7.921	32.00	J-55		19	22	2.82		
33	Casing Joint	8 5/8	7.921	32.00	J-55		22	1,417	1,394.70		
1	External Casing Packer	8 5/8	7.921	32.00	J-55		1,417	1,442	24.84		
36	Casing Joint	8 5/8	7.921	32.00	J-55		1,442	3,047	1,605.00		
1	Float Collar	8 5/8	7.921	32.00	J-55		3,047	3,048	1.42		
2	Casing Joint	8 5/8	7.921	32.00	J-55		3,048	3,124	76.25		
1	Float Shoe	8 5/8	7.921	32.00	J-55		3,124	3,126	1.54		

Production Casing, Planned?-N, 5,215ftKB

Set Depth (MD) (ftKB) 5,215		Set Tension (kips)		String Nominal OD (in) 5 1/2		String Min Drift (in)		Centralizers 65		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	Hanger	5 1/2	4.892	17.00	J-55		18	19	1.00		
74	Casing Joint	5 1/2	4.892	17.00	J-55	ST&C	19	3,101	3,081.30		
1	External Casing Packer	5 1/2	4.892	17.00	J-55	ST&C	3,101	3,125	24.60		
55	Casing Joint	5 1/2	4.892	17.00	J-55	ST&C	3,125	5,135	2,010.00		
1	Float Collar	5 1/2	4.892	17.00	J-55	ST&C	5,135	5,136	1.03		
2	Casing Joint	5 1/2	4.892	17.00	J-55	ST&C	5,136	5,214	77.19		
1	Float Shoe	5 1/2	4.892	17.00	J-55	ST&C	5,214	5,215	1.38		



Cement Summary

Production Casing Cement

Well Name CENTRAL VACUUM UNIT 211	Lease Central Vacuum Unit	Field Name Vacuum	Business Unit Mid-Continent
Ground Elevation (ft) 3,985.00	Original RKB (ft) 4,003.50	Current RKB Elevation 4,003.50, 9/17/2013	Mud Line Elevation (ft) 0.00
			Water Depth (ft) 0.00

Original Hole			
Wellbore Name Original Hole	Directional Type Shallow Kick Off 'S'	Kick Off Depth (ftKB) 3,603	Vertical Section Direction (") 65.00
Hole Size (in) 14 3/4	Act Top (ftKB) 18.5	Act Btm (ftKB) 1,464.0	
		1,464.0	3,129.0
		3,129.0	5,226.0

MB-260, Vetco Gray on 10/23/2013 11:30			
Type MB-260	Install Date 10/23/2013		
Des	Make	Model	WP (psi) Service SN

Conductor, Planned?-N, 80ftKB			
Casing Description Conductor	Wellbore Original Hole	Run Date 10/1/2013	Set Depth (MD) (ftKB) 80
Centralizers	Scratchers	Stick Up (ftKB) 0.0	Set Tension (kips)
Jts	Item Des	OD (in)	ID (in)
2	Casing Joint	16	14.687
		Wt (lb/ft)	109.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	80.00
		Top Depth (MD) (ftKB)	0
		Btm Depth (MD) (ftKB)	80

Surface, Planned?-N, 1,465ftKB			
Casing Description Surface	Wellbore Original Hole	Run Date 10/12/2013	Set Depth (MD) (ftKB) 1,465
Centralizers 10	Scratchers	Stick Up (ftKB) -18.4	Set Tension (kips)
Jts	Item Des	OD (in)	ID (in)
37	Casing Joint	11 3/4	11.094
		Wt (lb/ft)	42.00
		Grade	H-40
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	1,403.90
		Top Depth (MD) (ftKB)	18
		Btm Depth (MD) (ftKB)	1,422
1	Float Collar	11 3/4	11.094
		Wt (lb/ft)	42.00
		Grade	H-40
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	1.38
		Top Depth (MD) (ftKB)	1,422
		Btm Depth (MD) (ftKB)	1,424
1	Casing Joint	11 3/4	11.094
		Wt (lb/ft)	42.00
		Grade	H-40
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	39.53
		Top Depth (MD) (ftKB)	1,424
		Btm Depth (MD) (ftKB)	1,463
1	Guide Shoe	11 3/4	11.094
		Wt (lb/ft)	42.00
		Grade	H-40
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	1.75
		Top Depth (MD) (ftKB)	1,463
		Btm Depth (MD) (ftKB)	1,465

Intermediate Casing 1, Planned?-N, 3,126ftKB			
Casing Description Intermediate Casing 1	Wellbore Original Hole	Run Date 10/15/2013	Set Depth (MD) (ftKB) 3,126
Centralizers 28	Scratchers	Stick Up (ftKB) -18.4	Set Tension (kips)
Jts	Item Des	OD (in)	ID (in)
1	Hanger	8 5/8	7.921
		Wt (lb/ft)	32.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	1.00
		Top Depth (MD) (ftKB)	18
		Btm Depth (MD) (ftKB)	19
1	Pup Joint	8 5/8	7.921
		Wt (lb/ft)	32.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	2.82
		Top Depth (MD) (ftKB)	19
		Btm Depth (MD) (ftKB)	22
33	Casing Joint	8 5/8	7.921
		Wt (lb/ft)	32.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	1,394.70
		Top Depth (MD) (ftKB)	22
		Btm Depth (MD) (ftKB)	1,417
1	External Casing Packer	8 5/8	7.921
		Wt (lb/ft)	32.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	24.84
		Top Depth (MD) (ftKB)	1,417
		Btm Depth (MD) (ftKB)	1,442
36	Casing Joint	8 5/8	7.921
		Wt (lb/ft)	32.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	1,605.00
		Top Depth (MD) (ftKB)	1,442
		Btm Depth (MD) (ftKB)	3,047
1	Float Collar	8 5/8	7.921
		Wt (lb/ft)	32.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	1.42
		Top Depth (MD) (ftKB)	3,047
		Btm Depth (MD) (ftKB)	3,048
2	Casing Joint	8 5/8	7.921
		Wt (lb/ft)	32.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	76.25
		Top Depth (MD) (ftKB)	3,048
		Btm Depth (MD) (ftKB)	3,124
1	Float Shoe	8 5/8	7.921
		Wt (lb/ft)	32.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	1.54
		Top Depth (MD) (ftKB)	3,124
		Btm Depth (MD) (ftKB)	3,126

Production Casing, Planned?-N, 5,215ftKB			
Casing Description Production Casing	Wellbore Original Hole	Run Date 10/21/2013	Set Depth (MD) (ftKB) 5,215
Centralizers 65	Scratchers	Stick Up (ftKB) -18.5	Set Tension (kips)
Jts	Item Des	OD (in)	ID (in)
1	Hanger	5 1/2	4.892
		Wt (lb/ft)	17.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	
		Len (ft)	1.00
		Top Depth (MD) (ftKB)	18
		Btm Depth (MD) (ftKB)	19
74	Casing Joint	5 1/2	4.892
		Wt (lb/ft)	17.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	ST&C
		Len (ft)	3,081.30
		Top Depth (MD) (ftKB)	19
		Btm Depth (MD) (ftKB)	3,101
1	External Casing Packer	5 1/2	4.892
		Wt (lb/ft)	17.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	ST&C
		Len (ft)	24.60
		Top Depth (MD) (ftKB)	3,101
		Btm Depth (MD) (ftKB)	3,125
55	Casing Joint	5 1/2	4.892
		Wt (lb/ft)	17.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	ST&C
		Len (ft)	2,010.00
		Top Depth (MD) (ftKB)	3,125
		Btm Depth (MD) (ftKB)	5,135
1	Float Collar	5 1/2	4.892
		Wt (lb/ft)	17.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	ST&C
		Len (ft)	1.03
		Top Depth (MD) (ftKB)	5,135
		Btm Depth (MD) (ftKB)	5,136
2	Casing Joint	5 1/2	4.892
		Wt (lb/ft)	17.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	ST&C
		Len (ft)	77.19
		Top Depth (MD) (ftKB)	5,136
		Btm Depth (MD) (ftKB)	5,214
1	Float Shoe	5 1/2	4.892
		Wt (lb/ft)	17.00
		Grade	J-55
		Top Conn Sz (in)	
		Top Thread	ST&C
		Len (ft)	1.38
		Top Depth (MD) (ftKB)	5,214
		Btm Depth (MD) (ftKB)	5,215



Cement Summary

Production Casing Cement

Well Name CENTRAL VACUUM UNIT 211		Lease Central Vacuum Unit	Field Name Vacuum	Business Unit Mid-Continent	
Ground Elevation (ft) 3,985.00	Original RKB (ft) 4,003.50	Current RKB Elevation 4,003.50, 9/17/2013		Mud Line Elevation (ft) 0.00	Water Depth (ft) 0.00

Production Casing Cement, Casing, 10/22/2013 06:00

Cementing Start Date 10/22/2013	Cementing End Date 10/22/2013	Wellbore Original Hole
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Evaluation Method Returns to Surface	Cement Evaluation Results Retured 43 bbl of cement to surface.
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Comment

<stagenum>, <depthtop>-<depthbtm>ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)		Final Pump Pressure (psi)	Plug Bump Pressure (psi)
Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)		Pipe Rotated?	Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)		Drill Out Diameter (in)	Drill Out Date

<typ>

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal)	Zero Gel Time (lb/100ft ²)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc