Submit 1 Copy To Appropriate District	State of New Mex	kico	Form C-103		
Office <u>District I</u> – (575) 393-6161	Energy, Minerals and Natural Resources		Revised July 18, 2013		
1625 N. French Dr., Hobbs, NM 88240	r		WELL API NO.		
<u>District II</u> – (575) 748-1283 811 S. First St., Artesia, NM 88210	OIL CONSERVATION	DIVISION	30-025-40997		
<u>District III</u> - (505) 334-6178	1220 South St. Francis Dr.		5. Indicate Type of Lease		
1000 Rio Brazos Rd., Aztec, NM 87410	Santa Fe, NM 87		STATE FEE 6. State Oil & Gas Lease No.		
<u>District IV</u> – (505) 476-3460 1220 S. St. Francis Dr., Santa Fe, NM	Santa I e, I vivi o 7.	303	6. State Off & Gas Lease No.		
87505					
	ICES AND REPORTS ON WELLS		7. Lease Name or Unit Agreement Name		
V	DSALS TO DRILL OR TO DEEPEN OR PLU				
PROPOSALS.)	ICATION FOR PERMIT" (FORM C-101) FOI	BS OCD	CENTRAL VACUUM UNIT		
1. Type of Well: Oil Well	Gas Well Other	es OCD	8. Well Number 437		
2. Name of Operator	ner «	2 6 2013	9. OGRID Number 4323		
CHEVRON U.S.A. INC.	DLC 2	9 0 2013	10. Pool name or Wildcat		
3. Address of Operator 15 SMITH ROAD, MIDLAND, 7	FEYAS 70705		VACUUM; GRAYBURG SAN ANDRES		
	——————————————————————————————————————	ENED	VACCOM, GRATBORG SAN ANDRES		
4. Well Location	i				
	Feet from SOUTH line and 2180 fee				
Section 25		Range 34E	NMPM County LEA		
	11. Elevation (Show whether DR,	RKB, RT, GR, etc.)			
	4004' GL				
12 (1)	A ' Day to Indiana Ni	A	Demont on Other Dete		
12. Check	Appropriate Box to Indicate Na	iture of Notice,	Report or Other Data		
NOTICE OF IN	NTENTION TO:	SUB	SEQUENT REPORT OF:		
PERFORM REMEDIAL WORK	PLUG AND ABANDON □	REMEDIAL WORK			
TEMPORARILY ABANDON	CHANGE PLANS	COMMENCE DRI	LLING OPNS. P AND A		
PULL OR ALTER CASING	MULTIPLE COMPL	CASING/CEMENT	JOB 🔲		
DOWNHOLE COMMINGLE					
CLOSED-LOOP SYSTEM □					
OTHER:			L NEW WELL		
			d give pertinent dates, including estimated date		
		. For Multiple Cor	npletions: Attach wellbore diagram of		
proposed completion or re-	completion.				
08/09/2013: SPUD WELL. DRILL	78-753 1160 1578 SURF TD				
	O SURF CSG – SET @ 1578. CMT \	W/1035 SX CMT.			
08/12/2013: DRILL 1588,1920,323					
	INTER CSG – SET @ 3222'., CMT	W/595 SX CMT.			
	20,3358,3367,3401,3409,3449,3456,3				
	858,3868,3900,3908,3944,3958,3988				
	351,4360,4450,4756,4759,4772,4800	,4815,4937,4952,50	015,5025,5160. PROD TD (8-19)		
	C @ 5153. CMT W/1150 SX CMT.				
08/21/2013: RELEASE RIG @ 12	:00				
	•				
Spud Date:	. Rig Release Dat	te:			
<u> </u>					
I hereby certify that the information	yabove is true and complete to the be	st of my knowledge	e and belief.		
\mathcal{N} \mathcal{N}					
SIGNATURE MUSEN	10/16/1/19) TITLE DECL	LATORY SPECIA	LICT DATE 10/12/2012		
SIGNATURE TYCE	TILE REGU	LATUKI SPECIA	ALIST DATE 12/13/2013		
Type or print name -DENISE PINE	ζΕRΤΟΝ E-mail address:	: leakejd@chevro	nicam PHONE: 432-687-7375		
For State Use Only					
		roleum Enginee			
APPROVED BY:	TITLE		DATEDATE		
Conditions of Approval (if any):	· •				



Drill **Drill and Suspend** Job Start Date: 8/7/2013 Job End Date: 8/21/2013

Field Name Business Uni **CENTRAL VACUUM UNIT 437** Central Vacuum Unit Vacuum Mid-Continent Ground Elevation (ft) Current RKB Elevation Mud Line Elevation (ft) Water Depth (ft) Original RKB (ft) 4,004.00 4,022.50 4,022.50, 7/9/2013

Report Start Date: 8/7/2013

Com

PJSM with H&P, H&P Rig Movers and Trend Services. Review rig move check list.Discussed hazards assoc with rig move.

Load & Move H&P 356 from CVU 438 to the CVU 437, spot parts house, spot subs, pin derrick, Installed center steel, set back yard components, R/U H&P 356.

Notified OCD @9:00pm on 8/7/13 for prespud

Wait on daylight to scope derrick out

Report Start Date: 8/8/2013

Com

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

Raise derrick @ 6:00 8/8/13

N/U Conductor pipe, install flow line, kill line,

Continue to R/U front & back yard components, run all electric wires, power up motors & drawworks, undock top drive, dress rig floor & misc equipment, Perform rig inspections, organize all tools and equipment. Address action items from pre-spud inspection.

Accept rig @ 24:00

Report Start Date: 8/9/2013

LCom

L/O strap & caliper BHA, Install trip nipple, Continue to fill mud tank, change shaker screen, Fuction test pumps & electrical equipment.

P/U NOV .26 rpg Motor, X-O, M/U 14 3/4 Halliburton bit. TIH to 78

Drill 14 3/4" Surface hole section from 78' to 753'. Pumping high visc sweeps every 90'

AROP = 135 FPHWOB = 5-20 Klbs

TD RPM = 75 - 150

Motor RPM = 182

GPM = 700

SPP = 1000 psi

Torque 3 Kft*lbs

Differential = 400 psi

Install rotating head

Drill 14 3/4" Surface hole section from 753' to 1,160'. Pumping high visc sweeps every 90'

AROP = 162.8 FPH

WOB = 13 Klbs

TD RPM = 130

Motor RPM = 182

GPM = 700SPP = 2405 psi

Torque 5 Kft*lbs

Differential = 300-500 psi

Circ while change out shaker screens

Drill 14 3/4" Surface hole section from 1,160' to 1578' TD. Pumping high visc sweeps every 90'

AROP = 92 FPH

WOB = 21 Klbs

TD RPM = 150

Motor RPM = 182

GPM = 700

SPP = 3000 psi

Torque 5 Kft*lbs

Differential = 500 psi

Pump two 40 bbls high vis sweeps. Circ hole clean

Flow check - well static, TOH with 14.75" Surface BHA from 1,578' to 1,418'.

Hole took proper fill

Pulled slick

Pull rotating head



Drill and Suspend
Job Start Date: 8/7/2013
Job End Date: 8/21/2013

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	* - 3			JOD EIIU	Date. 6/2 1/2013
Well Name	Lease	Field Name	(a)	Business Unit	1 * (FC *
CENTRAL VACUUM UNIT	1437 ರ ಭಟ್ಟ Central Vacuum Unit	Vacuum	1997年,大阪外籍海损。	Mid-Continent	والمراوقة الموافقة المجالات
Ground Elevation (ft) Original	RKB (ft) Current RKB Elevation		7 G 7 15 7 M. C 2	Mud Line Elevation (ft) *	Water Depth (ft)
4,004.00	4,022.50 4,022.50, 7/9/2013		CE TOP TO SECTION	* A	•
a see that the second of		-	· · · · · · · · · · · · · · · · · · ·		
The Late of the Control of the Contr	TARKS AND PLANT TRANS	Com to the last to	A Control of the Cont	Land to the first of the state of the	THE CHILLY
TOH with 14.3/4" Surface	BHA from 1,418' to 1,410' (Back rea	imed from 1,410' to1,190'.") TOH	With 14 3/4" Surface BHA	from 1.190' to 517'	Hole pulled slick

Note:

Pump 40 bbl high vis sweep

Changed shaker screen

Hole took proper fill.

Hole pulled slick

Out side of Bit & XO pack with red bed

The state of the s

Report Start Date: -8/10/2013

TOH from 517' to surface.

L/D BHA, Motor & Bit Clean rig floor

Note

Hole took proper fill

Held PJSM with CVX, H&P 356 & Petro Safety. R/U H&P 11 3/4" CRT

R/U H&P 11 3/4" CRT & equipment.

Held PJSM with CVX, H&P 356, Franks casing crew & Petro Safety. On R/U Franks casing crews casing running equipment

R/U Franks casing equipment

Ran 11.75" 42# H-40 surface casing and tag bottom at 1578'. (Wash down casing from 1500' to 1578')

Circ 2 time casing volume

Note

PJSM with CVX, H&P 356, Halliburton, R/U cement equipment.

R/U Halliburton cement equipment.

Test lines to 3500 psi, Cement per Halliburton pump schedule. Displace 1180 bbls of FW. Bumped plug and held 1230 psi for 5 minutes (FCP=730 psi), test good. Checked floats, bled back 1 bbl. Full returns throughout the job. Returned 150 bbls of cement to surface.

	bbls	sacksy	bpm	wt. (ppg)
Spacer	20	n/a	4	8.4
Lead	201	≥610 °/	6	12.9
Spacer Lead Tail Disp.	101.4	425/	- 3	14.8
Disp.	180 '	⊆n/á	6	8.7

Flush surface lines and rig down Halliburton.

PJSM with Cotton Welding H&P 356 and CVX

R/D turnbuckles and flowline from conductor pipe. Rough cut conductor and surface casing & L/D same. Make final cut and dress conductor and surface casing ... for wellhead, Install and weld 11 3/4" SOW x 11" 5M multibowl wellhead.

Report Start Date: 8/11/2013

PJSM W/Mans NU crew

NU 11"x5M BOP, flow, kill, and choke lines, turn buckles, accumilator lines

PJSM for RD H&P CRT

RD H&P CRT

PJSM w/Manns test equipment

Pressure test BOPE to 250/3000 psi per drilling procedure and MCBU SOP. Perform accumulator function test. Test 11 3/4" casing to 1500 psi. All tests good. R/D pressure tester.

Test CSG to 1500psi hold for 30min and record on chart

TIH with 10 5/8" Bit & Intermediate BHA #2 to 979' as follows: 10 5/8" PDC bit (Halliburton MM65DM) 8" Motor (0.22 rev/gal), new teledrift, 10 1/2" stabilizer, 8" DC, XO sub, 9 6 1/2" DC, 16 4 1/2" HWDP, XO sub.

BHA=894.04'

Pull wear bushing, Pull trip nipple and install rotating head, install and lock wear bushing

TIH f/979' to 1517'

Preform choke, fire, well control, man down, spill, and evacuation drills

Displace fresh water w/9.9ppg brine

450



Drill Drill and Suspend Job Start Date: 8/7/2013 Job End Date: 8/21/2013

				irt Date: 8/7/2013 I Date: 8/21/2013		
Well Name CENTRAL VACUUM UNIT 437	Lease Central Vacuum Unit	Field Name	Business Unit Mid-Continent	·		
Ground Elevation (ft) Original RKB (ft)	Current RKB Elevation	Vacuum	Mud Line Elevation (ft)	Water Depth (ft)		
4,004.00 4,022.50	4,022.50, 7/9/2013		1			
		Com				
Drill cmt f/1534' to 1578'						
Float collar @ 1536' Shoe @ 1578'						
Report Start Date: 8/12/2013						
Drill 10' of new formation f/1578' to 1588		Com				
Cirulate bottoms up and perform FIT for	EMW of 17.0ppg @ 582psi					
Drill intermediate hole section f/1588' to		•				
Discussed The Hazard ID Tool (Motion) Contractors Hand Book. Page 7.0 Trans	We Held A Pre Tour Safety Meeting @ 5:30 am Discussing The Tenet For The Day # 2 (We Always Operate In A Safe And Controlled Condition) The Crew Discussed The Hazard ID Tool (Motion) DSM Explained The Daily Operations. The Tool Pusher Discussed Operations: We Reviewed From Chevron Contractors Hand Book. Page 7.0 Transportation) Standards And Guide Lines From H&P Page# 28 Confined Space Entry Also Hazard ID Tool Definitions One Thru 10 With Both Crews. We had the folling drills, BOP, Fire, Man down, Spill, and evacuation					
Drill 10 5/8" intermediate hole section f/1	920' to 3230'					
Discussed The Hazard ID Tool (Motion)	DSM Explained The Daily Operations. T	Day # 2 (We Always Operate In A Safe A he Tool Pusher Discussed Operations: Word H&P Page# 28 Confined Space Entry	e Reviewed From C	hevron		
Pump 2ea high vis sweeps and circulate	hole clean					
Drop scientific gyro tool						
TOH W/BHA f/3230' to 800'						
Report Start Date: 8/13/2013						
 Finish TOH w/BHA f/954' to surface		Com				
PJSM for RU H&P CRT						
Offload H&P CRT, RU CRT, inspect and	caliper elevators					
service rig. change oil in motors, check r	-	\bigcap_{α}				
RIH w/8 5/8" 32# J55 intermediate casing	g to 750'	1/1 to 1/2/				
		ame one that keep changing ∕on there ow	_	n the morning		
Continue to RIH w/8 5/8" 32# J55 interm	ediate casing to 1580', pull stripping rub	ober and install trip nipple, finish running ca	asing to 3222'			
Intermediate Casing as follows						
1 Float Shoe						
2 Casing jts 11 Float Collar						
42 Casing jts	42 Casing jts					
1 ECP 34 Casing jts	1 ECP 34 Casing its					
Circulate 2 bottoms up						
PJSM w/Halliburton Cement						
Land Casing and RU Halliburton Cemen	t					



Drill and Suspend Job Start Date: 8/7/2013

Job End Date: 8/21/2013 Field Name Business Unit ☐ Mid-Continent 🗸 🗸 CENTRAL VACUUM UNIT,437, e-Central Vacuum Unit Vacuum Current RKB Elevation Mud Line Elevation (ft) Water Depth (ft) Ground Elevation (ft) Original RKB (ft) 4,004.00 4,022.50 4,022.50, 7/9/2013 Short. Test all iron to 4000psi Pump Cement as follows LEAD 10bbls of H20 Spacer Pump 24bbls of Super Flush Pump 10bbls of H20 Spacer Pump 405 sacks of Lead cmt @12.9ppg-1.83 yield-9.47 H20=132bbls Pump 190 sacks of tail cement@14.8ppg-1.35 yield-6.15 H20=46bbls Drop 8 5/8" Plug Pumped 190bbls of brine water to displace cement Plug bump@800psi and pressure up 500psi over=1300psi hold for 5min 3/4bbls of returns Pressure up to 2900psi to set packer, release pressure and 1 1/2bbls in returns 15bbls of total returns to surface Remove landing joint and flush BOP PJSM for RD H&P CRT and Halliburton cmt RD H&P CRT and casing equipment, RD Halliburton cement Report Start Date: 8/14/2013 M/U Packoff and set. Test to 1500 psi Set Wearbushing PJSM with Chevron, Scientific & H&P on making directional BHA M/U 7 7/8" MM65DM Bit & Scientific Directional BHA, Scribe Motor & Surface Test MWD TIH With 7 7/8" Scientific Directional BHA to 3100, 1987 Perform choke drill with H&P crew Test 8 5/8" Intermediate Casing to 1500 psi for 30 min Pull trip nipple and install rotating head, Continue TIH tag cement @ 3141 Drilling cement & float equipment from 3141' to 3230' Drilling Rotating 7 7/8" production hole from 3230' to 3313' Pumping high visc sweeps every 90' AROP = 33.2 FPH WOB = 5-10 Klbs TD RPM = 70 Motor RPM = 168 GPM = 493SPP = 1700 psi Torque= 5 Kft*lbs Differential = 300-500 ps Drilling Slide 7 7/8" production hole from 3313' to 3320 AROP = 14 FPH WOB = 5-10 Klbs Motor RPM = 120 GPM = 352SPP = 1700 psi Differential =100 psi



Differential = 300-500 ps

Summary Report

Drill and Suspend Job Start Date: 8/7/2013

				OOD LIIG	Date. 0/2 1/2010
Well Name		Lease	Field Name	Business Unit	
CENTRAL VACUUN	1 UNIT 437	Central Vacuum Unit	Vacuum	Mid-Continent	
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation		Mud Line Elevation (ft)	Water Depth (ft)
4,004.00	4,022.50	4,022.50, 7/9/2013			

Drilling Rotating 7 7/8" production hole from 3230' to 3358' Pumping high visc sweeps every 90 AROP = 38 FPH WOB = 5-10 Klbs TD RPM = 70Motor RPM = 176 GPM = 518SPP = 1700 psi Torque= 5 Kft*lbs Differential = 300-500 ps Drilling Slide 7 7/8" production hole from 3358' to 3367' AROP = 18 FPH WOB = 5-10 Klbs Motor RPM = 125 GPM = 370SPP = 1700 psi Differential =100 psi Drilling Rotating 7 7/8" production hole from 3367' to 3401' Pumping high visc sweeps every 90' AROP = 68 FPH WOB = 5-10 Klbs TD RPM = 70Motor RPM = 176 GPM = 518SPP = 1700 psi Torque= 5 Kft*lbs Differential = 300-500 ps Drilling Slide 7 7/8" production hole from 3401' to 3409' AROP = 16 FPH WOB = 5-10 Klbs Motor RPM = 125 GPM = 370SPP = 1700 psi Differential =100 psi Drilling Rotating 7 7/8" production hole from 3409' to 3449' Pumping high visc sweeps every 90' AROP = 40 FPH WOB = 7-12 Klbs TD RPM = 70Motor RPM = 176 GPM = 518SPP = 1700 psi Torque= 5 Kft*lbs Differential = 300-500 ps Drilling Slide 7 7/8" production hole from 3449' to 3456' AROP = 14 FPH WOB = 5-10 Klbs Motor RPM = 125 GPM = 370SPP = 1700 psi Differential = 100 psi Drilling Rotating 7 7/8" production hole from 3458' to 3498' Pumping high visc sweeps every 90' AROP = 80 FPH WOB = 7-12 Klbs TD RPM = 70Motor RPM = 176 GPM = 518SPP = 1700 psi Torque= 5 Kft*lbs



Drill **Drill and Suspend**

Job Start Date: 8/7/2013 Job End Date: 8/21/2013 **Business Unit** CONTRACTOR CENTRAL VACUUM UNIT 437, Central Vacuum Unit Vacuum Mid-Continent Ground Elevation (ft) Original RKB (ft) Current RKB Elevation Water Depth (ft)= Mud Line Elevation (ft) 4,004.00 4,022.50 4,022.50, 7/9/2013 Drilling Slide 7 7/8" production hole from 3498' to 3506' AROP = 14 FPH WOB = 5-10 Klbs Motor RPM = 125 GPM = 370SPP = 1800 psi Differential =200 psi Drilling Rotating 7 7/8" production hole from 3506' to 3540' Pumping high visc sweeps every 90' AROP = 68 FPH WOB = 7-12 Klbs TD RPM = 70 Motor RPM = 176 GPM = 518SPP = 1700 psi Torque= 5 Kft*lbs Differential = 300-500 ps Drilling Slide 7 7/8" production hole from 3540' to 3551' AROP = 22 FPH WOB ≈ 5-10 Klbs Motor RPM = 125 GPM = 370SPP = 1800 psi Differential =200 psi Drilling Rotating 7 7/8" production hole from 3551' to 3584' Pumping high visc sweeps every 90' AROP = 66 FPH WOB = 7-14 Klbs TD RPM = 70 Motor RPM = 176 GPM = 518 SPP = 1700 psi Torque= 5 Kft*lbs Differential = 300-500 ps Drilling Slide 7 7/8" production hole from 3584' to 3596' AROP = 24 FPH WOB = 5-10 Klbs Motor RPM = 125 GPM = 370SPP = 1800 psiDifferential =200 psi Drilling Rotating 7 7/8" production hole from 3596' to 3628' Pumping high visc sweeps every 90' AROP = 64 FPH WOB = 8-16 Klbs TD RPM = 70Motor RPM = 176 GPM = 518 SPP = 1700 psi Torque= 5 Kft*lbs Differential = 300-500 ps Drilling Slide 7 7/8" production hole from 3628' to 3638' AROP = 20 FPH WOB = 5-10 Klbs Motor RPM = 125 GPM = 370SPP = 1800 psi Differential =200 psi



Drill Drill and Suspend Job Start Date: 8/7/2013 Job End Date: 8/21/2013

 Well Name
 Lease
 Field Name
 Business Unit

 CENTRAL VACUUM UNIT 437
 Central Vacuum Unit
 Vacuum
 Mid-Continent

 Ground Elevation (ft)
 Original RKB (ft)
 Current RKB Elevation
 Mud Line Elevation (ft)
 Water Depth (ft)

 4,004.00
 4,022.50
 4,022.50
 7/9/2013
 Water Depth (ft)
 Water Depth (ft)

Com

Drilling Rotating 7 7/8" production hole from 3638' to 3675' Pumping high visc sweeps every 90'

AROP = 74 FPH WOB = 8-16 Klbs TD RPM = 70 Motor RPM = 176 GPM = 518 SPP = 1700 psi Torque= 5 Kft*lbs Differential = 300-500 ps

Drilling Slide 7 7/8" production hole from 3675' to 3686'

AROP = 22 FPH WOB = 5-10 Klbs Motor RPM = 125 GPM = 370 SPP = 1800 psi Differential =200 psi

Report Start Date: 8/15/2013

Com

Drilling Rotating 7 7/8" production hole from 3686' to 3720' Pumping high visc sweeps every 90'

AROP = 64 FPH WOB = 14-16 Klbs TD RPM = 70 SPM=210 Motor RPM = 167GPM = 493 SPP = 1700 psi Torque= 5Kft*lbs Differential = 300-500 ps

Drilling Slide 7 7/8" production hole from 3720' to 3732'

AROP = 24 FPH WOB = 5-10 Klbs Motor RPM = 120SPM=150 GPM = 352 SPP = 1800 psi Differential =200 psi

Drilling Rotating 7 7/8" production hole from 3686' to 3720' Pumping high visc sweeps every 90'

AROP = 64 FPH WOB = 14-16 Klbs TD RPM = 70 SPM=210 Motor RPM = 167 GPM = 493 SPP = 1700 psi Torque= 5 Kft*lbs Differential = 300-500 ps

Drilling Slide 7 7/8" production hole from 3765' to 3777'

AROP = 24 FPH WOB = 5-10 Klbs Motor RPM = 120SPM=150 GPM = 352 SPP = 1900 psi Differential =200 psi

Drilling Rotating 7 7/8" production hole from 3777' to 3810' Pumping high visc sweeps every 90'

AROP = 66 FPH WOB = 14-16 Klbs TD RPM = 70 SPM=210 Motor RPM = 167 GPM = 493 SPP = 1900 psi Torque= 5 Kft*lbs Differential = 300-500 ps

Displace 10 ppg Brine with 11 ppg mud

Drilling Slide 7 7/8" production hole from 3810' to 3824'

AROP = 14 FPH WOB = 5-10 Klbs Motor RPM = 120 SPM=150 GPM = 352 SPP = 1900 psi Differential =200 psi

Drilling Rotating 7 7/8" production hole from 3824' to 3858' Pumping high visc sweeps every 90'

AROP = 68 FPH WOB = 14-16 Klbs TD RPM = 65 SPM = 210 Motor RPM = 167 GPM = 493 SPP = 2000 psi Torque = 5 Kft*lbs Differential = 300-500 ps

Drilling Slide 7 7/8" production hole from 3858' to 3868'

AROP = 10 FPH WOB = 5-10 Klbs Motor RPM = 120 SPM=150 GPM = 352 SPP = 2000 psi Differential =200 psi

Drilling Rotating 7 7/8" production hole from 3868 to 3900' Pumping high visc sweeps every 90'

AROP = 64 FPH WOB = 14-16 Klbs TD RPM = 65 SPM = 210 Motor RPM = 167 GPM = 493 SPP = 2100 psi Torque = 5 Kft*lbs Differential = 300-500 ps

Drilling Slide 7 7/8" production hole from 3900' to 3908'

AROP = 16 FPH WOB = 5-10 Klbs Motor RPM = 120 SPM=150 GPM = 352 SPP = 2100 psi Differential =200 psi

Drilling Rotating 7 7/8" production hole from 3908' to 3944' Pumping high visc sweeps every 90'

AROP = 36 FPH WOB = 14-16 Klbs TD RPM = 65 SPM=210 Motor RPM = 167 GPM = 493 SPP = 2200 psi Torque= 5 Kft*lbs Differential = 300-500 ps

Drilling Slide 7 7/8" production hole from 3944' to 3958'

AROP = 28 FPH WOB = 5-10 Klbs Motor RPM = 120 SPM=150 GPM = 352 SPP = 2100 psi Differential =200 psi



Drill and Süspend Drill and Süspend Job Start Date: 8/7/2013 Job End Date: 8/21/2013

Well Name
CENTRAL VACUUM UNIT 437
Central Vacuum Unit
Ground Elevation (ft)
Vacuum

Central Vacuum Unit
Ground Elevation (ft)
Vacuum

Mid-Continent

Mud Line Elevation (ft)
Vater Depth (ft)
Vater Depth (ft)

Com

Drilling Rotating 7 7/8" production hole from 3958' to 3988' Pumping high visc sweeps every 90'

AROP = 30 FPH WOB = 14-16 Klbs TD RPM = 65 SPM=210 Motor RPM = 167 GPM = 493 SPP = 2200 psi Torque= 5 Kft*lbs Differential = 300-500 ps

Drilling Slide 7 7/8" production hole from 3988' to 3999'

AROP = 22 FPH WOB = 5-10 Klbs Motor RPM = 120 SPM=150 GPM = 352 SPP = 2400 psi Differential =200 psi

Drilling Rotating 7 7/8" production hole from 3999' to 4035' Pumping high visc sweeps every 90'

AROP = 72 FPH WOB = 14-16 Klbs TD RPM = 65 SPM=210 Motor RPM = 167 GPM = 493 SPP = 2400 psi Torque= 5 Kft*lbs Differential = 300-500 ps

Drilling Slide 7 7/8" production hole from 4035' to 4046'

AROP = 22 FPH WOB = 5-10 Klbs Motor RPM = 120 SPM=150 GPM = 352 SPP = 2400 psi Differential =200 psi

Drilling Rotating 7 7/8" production hole from 4046' to 4080' Pumping high visc sweeps every 90'

AROP = 64 FPH WOB = 14-16 Klbs TD RPM = 65 SPM = 210 Motor RPM = 167 GPM = 493 SPP = 2400 psi Torque = 5 Kft*lbs Differential = 300-500 ps

Drilling Slide 7 7/8" production hole from 4080' to 4091'

AROP = 11 FPH WOB = 5-10 Klbs Motor RPM = 120 SPM=150 GPM = 352 SPP = 2000 psi Differential =200 psi

Drilling Rotating 7 7/8" production hole from 4091' to 4124' Pumping high visc sweeps every 90'

AROP 66 FPH, WOB 16-18 Klbs, TD RPM 65, SPM 210, Motor RPM 167, GPM 493, SPP 2500 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Drilling Slide 7 7/8" production hole from 4124' to 4138'

AROP 14 FPH, WOB 5-10 Klbs, Motor RPM 120, SPM 150, GPM 352, SPP 1500 psi, Differential 200 psi

Drilling Rotating 7 7/8" production hole from 4138' to 4168' Pumping high visc sweeps every 90'

AROP 30 FPH, WOB 16-18 Klbs, TD RPM 65, SPM 210, Motor RPM 167, GPM 493, SPP 2500 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Drilling Slide 7-7/8" production hole from 4168' to 4181'

AROP 26 FPH, WOB 5-10 Klbs, Motor RPM 120, SPM 150, GPM 352, SPP 1500 psi, Differential 200 psi

Drilling Rotating 7 7/8" production hole from 4181' to 4219' Pumping high visc sweeps every 90'

AROP 76 FPH, WOB 16-18 Klbs, TD RPM 65, SPM 210, Motor RPM 167, GPM 493, SPP 2500 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Perform regular rig service

Drilling Slide 7 7/8" production hole from 4219' to 4230'

AROP 22 FPH, WOB 5-10 Klbs, Motor RPM 120, SPM 150, GPM 352, SPP 1500 psi, Differential 200 psi

Drilling Rotating 7 7/8" production hole from 4230' to 4264' Pumping high visc sweeps every 90'

AROP 68 FPH, WOB 16-18 Klbs, TD RPM 65, SPM 210, Motor RPM 167, GPM 493, SPP 2500 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Drilling Slide 7 7/8" production hole from 4261' to 4271'

AROP 10 FPH, WOB 5-10 Klbs, Motor RPM 120, SPM 150, GPM 352, SPP 1500 psi, Differential 200 psi

Drilling Rotating 7 7/8" production hole from 4271' to 4305' Pumping high visc sweeps every 90'

AROP 34 FPH, WOB 16-18 Klbs, TD RPM 65, SPM 210, Motor RPM 167, GPM 493, SPP 2500 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Drilling Slide 7 7/8" production hole from 4305' to 4316'

AROP 20 FPH, WOB 5-10 Klbs, Motor RPM 120, SPM 150, GPM 352, SPP 1500 psi, Differential 200 psi

Drilling Rotating 7 7/8" production hole from 4316' to 4351' Pumping high visc sweeps every 90

AROP 35 FPH, WOB 16-18 Klbs, TD RPM 65, SPM 210, Motor RPM 167, GPM 493, SPP 2500 psi, Torque 4.5 Kft*lbs Differential, 300-500 psi

Drilling Slide 7 7/8" production hole from 4351' to 4360'

AROP 18 FPH, WOB 5-10 Klbs, Motor RPM 120, SPM 150, GPM 352, SPP 1500 psi, Differential 200 psi



Drill **Drill and Suspend** Job Start Date: 8/7/2013 Job End Date: 8/21/2013

Field Name Rusiness I Ini **CENTRAL VACUUM UNIT 437** Central Vacuum Unit Vacuum Mid-Continent Current RKB Elevation Ground Elevation (ft) Mud Line Elevation (ft Water Depth (ft) Original RKB (ft) 4,004.00 4,022.50 4,022.50, 7/9/2013

Drilling Rotating 7 7/8" production hole from 4360' to 4450' Pumping high visc sweeps every 90'

AROP 45 FPH, WOB 16-18 Klbs, TD RPM 65, SPM 210, Motor RPM 167, GPM 493, SPP 2500 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Report Start Date: 8/16/2013

Drilling Rotating 7 7/8" production hole from 4450' to 4756' Pumping high visc sweeps every 90

AROP 34 FPH, WOB 16-18 Klbs, TD RPM 65, SPM 210, Motor RPM 167, GPM 493, SPP 2500 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Make connection & Survey, attempted to rotate top drive and pipe stalled. Worked stuck pipe while waiting on EZ spot pill to be built. (Max overpull 125k)

Pump 30 bbl EZ spot pill, wait 30 mins, and continue working stuck pipe

C/O top drive grabber dies.

Circulate EZ spot pill out

PJSM with Grey Wireline crew

RU wire line, hang sheave from crown, install 4" pack off, and PU free point tool

Report Start Date: 8/17/2013

Operations suspended to weather

Continue R/U wire line, hang sheave from crown, install 4" pack off, and P/U free point tool

RIH with free point tool. Pipe freel @ 4384'. POH.

M/U charge on free point tool, RIH to 4,384' & back off. POH.

PJSM with CVX, H&P, Gray's & Petro. R/D Gray's wire line & tool's.

TOH from 4.384' to 3.100'

Pull rotating head. Install trip nipple.

Continue TOH from 3,100 to to surface

TOH with 4,384' of Drill string. 87 jt's DP. 13 jt's HWDP.

Clean rig floor

L/O, P/U Fishing BHA as follows

Screw in sub

B sub

Jars XO

9 DC 6 1/2"

12 HWDP 4 1/2"

XO

Accelerator

XΩ

TIH with fishing tools. Tagged the top of fish @ 4320

Screw into fish at 4320'. Jarred on fish, max pull 265k. Stopped hourly to inspect the top drive and derrick.

Report Start Date: 8/18/2013

Continue Jarring on fish, max pull 265k.

PJSM with CVX, H&P, Petroplex & Petro.R/U pump truck. Spot 30 bbls acid with 15% corrosion inhibitor and displace w/11ppg

Let acid set for 20min, set jars off one time and fish came free. Drill string free @ 3:00. Work drill string while circulating acid out of hole.

TOH from 4.740' to 3.085'

Flow check @ 3,085' well static

Pull rotating head. Install trip nipple.

Continue TOH from 3,085 to surface. Break bit, L/D Fishing BHA,

Note:

Hole took Porper fill

Clean rig floor

Service rig, Inspect derrick, top drive, drawworks

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Report Printed: 10/16/2013



ASSIGNACION CONTRACTOR OF THE SECOND CONTRACTO

Drill and Suspend Job Start Date: 8/7/2013 Job End Date: 8/21/2013

Well Name
CENTRAL VACUUM UNIT 437. Lease
Central Vacuum Unit
Ground Elevation (ft) \(\text{Original RKB (ft)} \)
4,004.00 4,022.50 7/9/2013

Lease
Field Name
Vacuum
Vacuum

Field Name
Vacuum

Wid-Continent
Vacuum

Mud Line Elevation (ft) Water Depth (ft)

Load BHA of pipe racks and strap

BHA

12ea 4 1/2" HWDP

1ea 6" Jars

3ea 4 1/2" HWDP ...

9ea 6 1/2" DC

1ea 6 1/2" Non-magnetic Flex Collar

1ea 6 1/2" MWD Pulse Sub

1ea 6 1/2" Non-magnetic DC

1ea 6 1/2" 1:5deg Motor (0:28 rev/gal)

1ea 7 7/8" PDC Bit

Held PJSM w/scientific and MU directional tools

PU BHA and TIH to 3160"

Review JSA on cutting drill line

Report Start Date: 8/19/2013

Slip & Cut 100' Of Drill Line

Continue TIH from 3160' to 4759', Precautionary washed down last 90', Hole was slick

Drilling Rotating 7 7/8" production hole from 4759' to 4772' Pumping high visc sweeps every 90'

AROP 26 FPH, WOB 8-12 Klbs, TD RPM 70, SPM 210, Motor RPM 167, GPM 493, SPP 2800 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

C&C while working on mud pump, changed out packing & plunger

Drilling Rotating 7.7/8" production hole from 4772' to 4800' Pumping high visc sweeps every 90'

AROP 18.6 FPH, WOB 8-12 Klbs, TD RPM 70, SPM 210, Motor RPM 167, GPM 493, SPP 2800 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Drilling Slide 7 7/8" production hole from 4800' to 4815'

AROP 30 FPH, WOB 5-10 Klbs, Motor RPM 120, SPM 150, GPM 352, SPP 2000 psi, Differential 200 psi

Drilling Rotating 7 7/8" production hole from 4815' to 4937' Pumping high visc sweeps every 90'

AROP 49 FPH, WOB 12-15 Klbs, TD RPM 70, SPM 210, Motor RPM 167, GPM 493, SPP 2800 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Drilling Slide 7 7/8" production hole from 4937' to 4952'

AROP 15 FPH, WOB 5-10 Klbs, Motor RPM 120, SPM 150, GPM 352, SPP 2300 psi, Differential 200 psi

Drilling Rotating 7 7/8" production hole from 4952' to 5015' Pumping high visc sweeps every 90'

AROP 78 FPH, WOB 15-20 Klbs, TD RPM 70, SPM 210, Motor RPM 167, GPM 493, SPP 2800 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Drilling Slide 7 7/8" production hole from 5015' to 5025'

AROP 20 FPH, WOB 5-10 Klbs, Motor RPM 120, SPM 150, GPM 352, SPP 2300 psi, Differential 200 psi

Drilling Rotating 7 7/8" production hole from 5025' to 5160' Pumping high visc sweeps every 90'

AROP 90 FPH, WOB 15-20 Klbs, TD RPM 70, SPM 210, Motor RPM 167, GPM 493, SPP 2800 psi, Torque 4-5 Kft*lbs Differential, 300-500 psi

Pump 2 40 bbls High Vis Sweeps & Circulate Hole clean

Monitor Well (Well Static)

TOH From 5160' To 4400' Pump Slug Continue TOH to 3093',

PJSM For Tripping Pipe, Pull Rotating Head, Install Trip Nipple Monitor Well

Continue TOH From 3093' to 120'

PJSM, Retrieve MWD, Lay Down Scientific Directional BHA, Break bit & laydown handling tools

Clean rig floor and pull wear bushing

PJSM, review JSA on RU CRT

Report Start Date: 8/20/2013

Continue R/U 5 1/2" CRT & handling tools

Run 5 1/2" casing. Tag bottom @ 5,160' L/D tag joint, P/U Landinng joint & hanger. Land casing @ 5,153'

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Drill and Suspend Job Start Date: 8/7/2013

			JOD E110 Date. 6/21/2013
Well Name	Lease	Field Name	Business Unit
CENTRAL VACUUM UNIT 437	Central Vacuum Unit	Vacuum	Mid-Continent
Ground Elevation (ft) Original RKB (ft)	Current RKB Elevation		Mud Line Elevation (ft) Water Depth (ft)
4,004.00 4,022.50	4,022.50, 7/9/2013		1

Ground Elevation (ft) | Original RKB (ft) | Current RKB Elevation | Mud Line Elevation (ft) | Water Depth (ft) |
4,004.00 | 4,022.50 | 4,022.50, 7/9/2013 |

Com

Circ 1 1/2 times casing volume

PJSM with CVX,H&P rig crew & Petro & Halliburton. R/U cementing equip.

Test lines to 4000 psi, Cement per Halliburton pump schedule. Displace 117.4 bbls of FW & acid. Bumped plug and held 2400 psi for 5 minutes (FCP=1900 psii), test good. Checked floats, bled back 2 bbls. Full returns throughout the job. Returned 30 bbls of spacer to surface.

Pressure up and set Weatherford external pack off with 3000 psi. (Set @ 3,167)

PJSM with CVX, H&P, Petro & Halliburton.R/D Halliburton cement equip.

Review JSA, R/D 5 1/2" CRT, Flush surface lines, R/D H&P 5 1/2" CRT Clean mud tanks

Back out landing joint, set pack-off and test to 4400 psi. Set back pressure valve.

PJSM with Mann N/D crew and H&P. N/D BOPE.

Install tubing head. Test to 5000 psi.

Clean mud tanks. Power down top drive & drawworks. Dock top drive. Scope in derrick. Begin R/D front and back yard rig components. NOTE: Release H&P 356 @ 12:00