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

WELL API NO. 30-025-41731

5. Indicate Type of Lease STATE ☐ FEE ☒

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name
GRAMMA RIDGE 14 24 34

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

8. Well Number 2H

2. Name of Operator
CHEVRON U.S.A. INC.

9. OGRID Number 4323

3. Address of Operator
15 SMITH ROAD, MIDLAND, TEXAS 79705

10. Pool name or Wildcat
RED HILLS; BONE SPRING, NORTH

4. Well Location
Unit Letter: D 330 feet from NORTH line and 340 feet from the WEST line
Section 14 Township 24S Range 34E NMPM County LEA

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*
3508' GL

HOBBS OCD
DEC 19 2014
RECEIVED

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

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
PERFORM REMEDIAL WORK	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
DOWNHOLE COMMINGLE	☐						
CLOSED-LOOP SYSTEM	☐						
OTHER:				OTHER: NEW WELL COMPLETION			

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.

Summary Report attached

9-13-14: MIRU FRAC.
9/14/14: PERF 15162-15383. SPOT 3000 GALS 15% FE HCI& 12,020 GALS TRTD WTR, 15.8BPM @ 170 FPM. FRAC. TOTAL PROP:461,128 LBS,20/40 PREM WHITE: 396,125 LBS, 16/30 CRC RESIN: 65,002.
9/15/14: PERF 15,107-14,884'. SPOT 3000 GALS 15% FE HCI. FRAC. TOTAL PROP: 305,114 LBS, 20/40 PREM WHITE: 263,198 LBS, 16/30 CRC RESIN: 41,915
PERF: 14,829-14,606. SPOT 3000 GALS 15 FE HCI. FRAC. TOTAL PROP: 249,523 LBS, 20/40 PREM WHITE: 182,920 LBS, 16/30 CRC RESIN: 66,590.
PERF: 14,328-14,551'. SPOT 3000 GALS 15% FE HCI. FRAC. TOTAL PROP: 317,431 LBS, 30/50 PREM WHITE: 232,376 LBS, 20/40 PREM WHITE: 49,993 LBS, 16/30 CRC RESIN: 35,062.
PERF: 14,273-14,050. SPOT 3000 GALS 15% FE HCI. FRAC. TOTAL PROP: 311,630 LBS, 30/50 PREM WHITE: 272,660 LBS, 20/40 PREM WHITE: 0 LBS, 16/30 CRC RESIN: 38,970.
PERF: 13,772-13,993. SPOT 3000 GALS 15% FE HCI. FRAC. TOTAL PROP: 301,750 LBS, 30/50 PREM WHITE: 255,900 LBS, 20/40 PREM WHITE: 0 LBS. 16/30 CRC RESIN: 45,850
PERF: 13,494-13,715. SPOT 3000 GALS 15% FE HCI. FRAC. TOTAL PROP: 306,310 LBS, 30/50 PREM WHITE: 262,410 LBS, 20/40 PREM WHITE: 0 LBS, 16/30 CRC RESIN: 43,900.

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 Denise Pinkerton TITLE REGULATORY SPECIALIST DATE 12/17/2014

Type or print name DENISE PINKERTON E-mail address: leakejd@chevron.com PHONE: 432-687-7375

For State Use Only

APPROVED BY: TITLE Petroleum Engineer DATE 03/06/15

MAR

Continuation for completion of Gramma Ridge 14 24 34 #2H

PERF: 13,216-13,439. SPOT 3000 GALS 20% FE HCI. FRAC. TOTAL PROP: 282,951 LBS, 30/50 PREM WHITE: 241,674 LBS, 20/40 PREM WHITE: 0 LBS, 16/30 CRC RESIN: 41,277 LBS.
PERF: 12,938-13,161. SPOT 3000 GALS 20% FE HCI. FRAC. TOTAL PROP: 313,478 LBS, 30/50 PREM WHITE: 273,186 LBS, 20/40 PREM WHITE: 0 LBS, 16/30 CRC RESIN: 40,292 LBS.
PERF: 12,660-12,883. SPOT 3000 GALS 20% FE HCI. FRAC. TOTAL PROP: 329,922 LBS, 30/50 PREM WHITE: 283,125 LBS, 20/40 PREM WHITE: 0 LBS, 16/30 CRC RESIN: 46,796 LBS.
PERF: 12,382-12,605. SPOT 3000 GALS 20% FE HCI. FRAC. TOTAL PROP: 163,780 LBS, 30/50 PREM WHITE: 137,060 LBS, 20/40 PREM WHITE: 0 LBS, 16/30 CRC RESIN: 26,720 LBS.
PERF: 12,104-12,431. SPOT 3000 GALS 20% FE HCI. FRAC. TOTAL PROP: 393,820 LBS, 30/50 PREM WHITE: 321,930 LBS, 20/40 PREM WHITE: 0 LBS. 16/30 CRC REGIN: 71,890 LBS.

09/26/2014: SET 2 7/8" TBG @ 9929 (TUBING SUMMARY ATTACHED).

09/26/2014: RELEASE RIG

11/19/2014 THROUGH 12/01/2014 : PUMP REPAIR.
2 7/8" TBG SET @ 10,411. (TUBING SUMMARY ATTACHED).

10/25/2014: ON 24 HR OPT. PUMPING 332 OIL, 465 GAS, & 881 WATER, G04-1400.

Summary Report

Completion
Complete
Job Start Date: 8/8/2014
Job End Date: 9/26/2014

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Report Start Date: 8/8/2014
Com
HSM & PJSA w/ Trend, Hobbs anchors. Discuss Scope of Job, SWA, TIF, ERP, Tenet #8 We always address abnormal conditions, spotters while backing, no spill policy, pinch points and heat
Trend move in set-up 1 Company man trailer and 1 safety trailer and auxillary equipment. Hobbs set rig anchors.
Report Start Date: 8/9/2014
Com
No Activity. Carry Costs only.
Report Start Date: 8/10/2014
Com
No Activity. Carry Costs only.
Report Start Date: 8/11/2014
Com
No Activity. Carry Costs only.
Report Start Date: 8/12/2014
Com
No Activity. Carry Costs only.
Report Start Date: 8/13/2014
Com
No Activity. Carry Costs only.
Report Start Date: 8/14/2014
Com
No Activity. Carry Costs only.
Report Start Date: 8/15/2014
Com
No Activity. Carry Costs only.
Report Start Date: 8/16/2014
Com
No Activity. Carry Costs
Report Start Date: 8/17/2014
Com
No Activity. Carry Costs
Report Start Date: 8/18/2014
Com
No Activity. Carry Costs
Report Start Date: 8/19/2014
Com
No Activity. Carry Costs
Report Start Date: 8/20/2014
Com
No Activity. Carry Costs
Report Start Date: 8/21/2014
Com
No Activity. Carry Costs
Report Start Date: 8/22/2014
Com
Operations suspended, carry costs.
Report Start Date: 8/23/2014
Com
Operations Suspended, Carry Costs
Report Start Date: 8/24/2014
Com
Pre Job Safety Meeting - Tenent #4 - Always follow safe work practices and procedures. Discuss the near miss on the skeen, and how it applies to their job - Staying out of the line of fire while setting / moving tanks.
Set Frac Tanks
Report Start Date: 8/25/2014
Com
Operations Suspended, Carry Costs
Report Start Date: 8/26/2014
Com
Operations Suspended, Carry Costs
Report Start Date: 8/27/2014

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Com
Operations Suspended, Carry Costs
Report Start Date: 8/28/2014
Com
Pre job safety meeting
Rig up water transfer lines.
Report Start Date: 8/29/2014
Com
Deliver forklift/manlift/lightplants
Operations suspended, Carry Costs
Report Start Date: 8/30/2014
Com
PJSM - Discuss different operations - unloading equipment, setting up containment, spotting tanks. Discuss hazards - lifting, traffic, pinch / crush points.
Setup Containment, Set open tops, flowback tanks
Report Start Date: 8/31/2014
Com
Prejob safety meeting - Tenant #1 - Always operate within design and environmental limits. Discuss TIF, SWA. Discuss operations for today - NU / Test Frac Stack, Test Annulus. Discuss Hazards: Pressures, overhead lifts / crush / pinch points.
NU 7 1/16 10K Lower Master
Pull BPV, Install TWC and flow sub WHP: 0 psi Test lower master Low: 250 psi High: 8500 psi - Test good Pull TWC and flow sub
NU 7 1/16 10K Hydraulic Master, Flow Cross, Crown Valve, Night Cap. NOTE: Goat head will be used Red Hills 2-25-33 3H
Fill Annulus with 3 bbl water Test low - 250 psi Test high - 500 psi Test good,
Finish rigging up flowback iron to open top tanks. Spot command trailer, accumulator. Run hoses, function test all valves Pull road crossing from pond for rig move. Finish rigging up water transfer on location/
Pressure test flowback / frac stack. Check for leaks - change out plug valves. Bonnet on hydraulic master started leaking on high test. Tightened bolts - retested. Pressure test low - 300 psi Pressure test high - 8500 psi Decision made to replace hydraulic master. Secure well for night.
Report Start Date: 9/1/2014
Com
Prejob safety meeting - Tenant #1 - Always operate within design and environmental limits. Discuss TIF, SWA. Discuss operations for today - Replace Hydraulic Valve, Test Frac Stack, Open RSI. Discuss Hazards: Pressures, overhead lifts / crush / pinch points. Discsuss Heat / staying hydrated
RU Crane, ND Frac Stack, Hydraulic Valve. Wait on new valve to arrive
Prejob safety meeting - Tenant #1 - Always operate within design and environmental limits. Discuss TIF, SWA. Discuss operations for today - Replace Hydraulic Valve, Test Frac Stack, Open RSI. Discuss Hazards: Pressures, overhead lifts / crush / pinch points. Discsuss Heat / staying hydrated
Spot CUDD pump trucks, start rig up hoses, iron NU Hydraulic Valve, NU Frac Stack Reconnect Hoses, function test valves

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

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Com
Pressure Test Flowback / Frac Stack 250 psi low 8500 psi high - good Rig up Cudd to flowcross Pressure Test 250 psi low 8500 psi high - good
Open Well Pressure Up to 5000 psi - hold 5 min Pressure Up to 5500 psi - hold 3 min Pressure Up to 8562 psi - hold 40 min RSI Opened, Pressure dropped from 8534 to 4062 psi in 5 min Start pumping into well 5 bpm - 5900 psi - 13 bbls total 7 bpm - 6185 psi - 30 bbls total 7.4 bpm - 6370 psi - 46 bbls total 9.7 bpm - 6762 psi - 63 bbl total 11.3 bpm - 7026 psi - 112 bbl total Shut-Down, ISIP: 5300 psi 5 min: 3969 psi 10 min: 3946 psi 15 min: 3923 psi Secure well RD CUDD, WW Wireline
Report Start Date: 9/2/2014
Com
No Activity - Cost update only
Report Start Date: 9/3/2014
Com
No Activity
Set additional trailer house
No activity
Report Start Date: 9/4/2014
Com
No Activity - Cost update only
Report Start Date: 9/5/2014
Com
Well shut in - No activity
Received acid tanks
Well shut in - No activity
Report Start Date: 9/6/2014
Com
Well shut in - No activity
Set containment for additional acid tank. Spotted final acid tank. Found broken union on tank. Sent tank out for replacement. Received sand castle. Begin pre-filling acid tanks w/ mix water.
Well shut in - No activity
Report Start Date: 9/7/2014
Com
Well shut in - No activity
PJSM - Discussed Tenet 7 (Always comply with all applicable rules and regulations), location traffic, rainy weather, slick surfaces, truck backing, spotters, climbing, hand & body placement, working w/ acid, PPE, Emergency Response, 4 pts, communication, SWA.
Mixed & loaded 732 bbls, 20%, HCl w/ inhibitors & surfactant
Well shut in - No activity
Report Start Date: 9/8/2014
Com
No Activity - Cost update only
Report Start Date: 9/9/2014
Com
No Activity - Cost update only
Report Start Date: 9/10/2014
Com
No Activity - Cost update only

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Report Start Date: 9/11/2014
Com
No Activity - Cost update only
Report Start Date: 9/12/2014
Com
Well shut in. No activity
PJSM - Discussed Tenet 2 (Always operate in a safe and controlled condition), inclement weather, deep water, walking & slick surfaces, location traffic, truck backing, spotters, walking w/ loads, forklift safety, communication, 4 Pts, emergency response, SWA.
Move in and spot sand castles & mountain movers. Spot sand belt. Begin RU containment. Start unloading sand trucks.
Report Start Date: 9/13/2014
Com
Continue laying containment and unloading sand chiefs.
PJSM - Discussed Tenet 3 (Always ensure safety devices are in place and functioning), inclement weather, deep water, walking & slick surfaces, location traffic, truck backing, spotters, walking w/ loads, forklift safety, communication, 4 Pts, emergency response, SWA.
PJSM w/ Hal frac, Hal crane, OTG, CasedHole, EPS, and Fesco. Go over JSA's, Tenet, Hazards, TIF. Review muster points, use of good communications, staying hydrated and use of SWA.
MIRU Hal frac equipment. R/U pumps and iron. Continue filling sand castles and movers. MIRU CasedHole E-line. Continue to R/U water transfer lines.
N/D crown valve. N/U goat head and crown valve Low 500 psi/ high 8500 psi. Hold for 5 minutes each. Both test pass.
N/U 10k wireline BOP
Continue R/U of Hal frac equipment.
Report Start Date: 9/14/2014
Com
Continue rigging up Halliburton Frac Crew.
PJSM w/ Hal frac crew and associated business partners. Go over Tenet, Hazard, TIF, muster points, good communication skills, importance of staying hydrated, sign in/sign out sheet, Review use of SWA.
Continue to R/U frac equipment.
Prime and test surface equipment. Set N2 pop off at 8300. Test to 8240 psi Set backside pop off (5-1/2 x 9-5/8 csg) to 1500. Test to 1500 psi.
Arm guns, R/U lubricator and test to 6000 psi. Test pass.
SICP: 3150 psi Perf Stage #2 Bonesprings F/ 15162'-15383' Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 15% FE HCl and 12,020 gal treated water @ 15.8 bpm @ 170 fpm. SD pumps. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 15,383'-15,385' 6 spf 12 shots 19 gm 60 degree phase 15,326'-15,328' 6 spf 12 shots 19 gm 60 degree phase 15,272'-15,273' 6 spf 6 shots 19 gm 60 degree phase 15,217'-15,218' 6 spf 6 shots 19 gm 60 degree phase 15,162'-15,163' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes. Note: POOH, running CCL to ~100' above marker joint (10,608') for correlation. Note: PJSM w/ night shift frac crew and business partners held at 1800.

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Com
Frac Stages 1 and 2 together: Frac Stage #1 and 2 F/15,440'/ 15,162' – 15,385' Shut-in Wellhead PSI = 3,200 psi Breakdown: 5,625 psi Max Rate: 81 BPM Avg Rate: 68 BPM Max Pressure: 7,757 psi Avg Pressure: 6,810 psi Total Prop: 461,128 lbs 20/40 Premium White: 396,125 lbs 16/30 CRC Resin: 65,002 Max Prop Conc.: 4.7 ppg Hybor G 10# : 3,758 bbls Slick Water: 3,397 bbls 15% FE Acid: 71 bbls Load To Recover: 7,226bls ISIP: 4,061 psi 5 min: 3,815 FG: 0.80 psi/ft All designed frac and perf ops completed. Had to swap out the pump down blender before getting ready to perforate.
Wait on Halliburton to change out pump down blender befor we got wireline on the well.
Report Start Date: 9/15/2014
Com
SICP: 3,400 psi Perf Stage #3 (2nd Bonesprings F/ 15,107'-14,884') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 15% FE HCl and 11810 gal treated water @ 15 bpm @ 190 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 15134'. Line tension 1462 lbs prior to plug set/1350 lbs after plug set. Pressure up psi. P/U and perforate, pumping 2 bpm. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 15,105'-15,107' 6 spf 12 shots 19 gm 60 degree phase 15,048'-15,050' 6 spf 12 shots 19 gm 60 degree phase 14,994'-14,995' 6 spf 6 shots 19 gm 60 degree phase 14,939'-14,940' 6 spf 6 shots 19 gm 60 degree phase 14,884'-14,885' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes.

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Com
Frac Stage #3 (2nd Bonesprings F/15,107' - 14,884') Shut-in Wellhead PSI = 3,900 psi Breakdown: 5,567 psi Max Rate: 73 BPM Avg Rate: .69 BPM Max Pressure: 7,591 psi Avg Pressure: 6,300 psi Total Prop: 305,114 lbs 20/40 Premium White: 263,198 lbs 16/30 CRC Resin: 41,915 Max Prop Conc.: 4.7 ppg Hybor G 10# : 2,388 bbls Slick Water: 2,778 bbls 15% FE Acid: 71 bbls Load To Recover: 5,237 bbls ISIP: 4,009 psi 5 min: 3,900 psi FG: 0.80 psi/ft While pumping stage3 (2-3 ppa Xlink) the blender lost all discharge, crew worked through the issue and was able to resume schedule as designed after pumping a casing volume.
Arm guns, R/U lubricator and test to 6000 psi. Test pass.
SICP: 3100 psi Perf Stage #4 (2nd Bonesprings F/ 14,829'-14,606') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 15% FE HCl and 11,538 gal treated water @ 15 bpm @ 190 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 14,850'. Line tension 1450 lbs prior to plug set/1324 lbs after plug set. Pressure up 5500 psi. P/U and perforate, pumping 2 bpm. Pump 2.5 bpm POOH w/ wireline to displace acid. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 14,827'-14,829' 6 spf 12 shots 19 gm 60 degree phase 14,770'-14,772' 6 spf 12 shots 19 gm 60 degree phase 14,716'-14,717' 6 spf 6 shots 19 gm 60 degree phase 14,661'-14,662' 6 spf 6 shots 19 gm 60 degree phase 14,606'-14,607' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes. Note: PJSM held w/ Hal frac crew and associated business partners for daylight tour.

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Com
Frac Stage #4 (2nd Bonesprings F/14,606-14,829') Shut-in Wellhead PSI = 3150 psi Breakdown: 7744 psi Max Rate: 81.4 BPM Avg Rate: 60 BPM Max Pressure: 8111 psi Avg Pressure: 7133 psi Total Prop: 249,523 lbs 20/40 Premium White: 182,920 lbs 16/30 CRC Resin: 66,590 Max Prop Conc.: 3.76 ppg Hybor G-R 15# 2,041 bbls Slick Water: 2,485 bbls 15% FE Acid: 71 bbls Load To Recover: 4598 bbls ISIP: 4325 psi 5 min: 3902 psi FG: 0.73 psi/ft
Arm guns, R/U lubricator and test to 6000 psi. Test pass.
SICP: 3100 psi Perf Stage #5 (2nd Bonesprings F/ 14,328'-14,551') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 15% FE HCl and 11,266 gal treated water @ 15 bpm @ 200 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 14,573'. Line tension 1280 lbs prior to plug set/1280 lbs after plug set. Pressure up 5500 psi. P/U and perforate, pumping 2 bpm. Pump 2.5 bpm POOH w/ wireline to displace acid. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 14,549' - 14,551' 6 spf 12 shots 19 gm 60 degree phase 14,492' - 14,494' 6 spf 12 shots 19 gm 60 degree phase 14,438' - 14,439 6 spf 6 shots 19 gm 60 degree phase 14,383' - 14,384' 6 spf 6 shots 19 gm 60 degree phase 14,328' - 14,329' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes.
Operations suspended. Waiting on 30/50 and 20/40 sand to arrive on location.
Report Start Date: 9/16/2014
Com
Waiting on Proppant

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Com
Frac Stage #5 (2nd Bonesprings F/14,551' - 14,328') Shut-in Wellhead PSI = 3,000 psi Breakdown: 6,529 psi Max Rate: 72 BPM Avg Rate: 63 BPM Max Pressure: 7,932 psi Avg Pressure: 7,118 psi Total Prop: 317,431 lbs 30/50 Premium White:232,376 lbs 20/40 Premium White: 49,993 lbs 16/30 CRC Resin: 35,062 Max Prop Conc.: 4.7 ppg Hybor G 10# : bbls Slick Water: bbls 15% FE Acid: 71 bbls Load To Recover: 5,492 bbls ISIP: 4,335 psi 5 min: 4,090 psi FG: 0.82 psi/ft While pumping stage 5, we had to cut sand and flush well becasue NOV water transfer lost their transfer pump. Got pump back up and going and pumped stage to completion
SICP: 3100 psi Perf Stage #6 (2nd Bonesprings F/ 14,273'-14,050') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 15% FE HCl and 11,538 gal treated water @ 15 bpm @ 190 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 14,850'. Line tension 1450 lbs prior to plug set/1324 lbs after plug set. Pressure up 5500 psi. P/U and perforate, pumping 2 bpm. Pump 2.5 bpm POOH w/ wireline to displace acid. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 14,271'-14,273' 6 spf 12 shots 19 gm 60 degree phase 14,214'-14,216' 6 spf 12 shots 19 gm 60 degree phase 14,160'-14,161' 6 spf 6 shots 19 gm 60 degree phase 14,105'-14,106' 6 spf 6 shots 19 gm 60 degree phase 14,050'-14,051' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes. Note: PJSM held w/ Hal frac crew and associated business partners for daylight tour.

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Com
Frac Stage #6 (2nd Bonesprings F/14,050' - 14,271') N2 Pop off set @ 8300 psi, Kickouts staggered 8100 - 8300, Backside pressure 600 - 800 psi Shut-in Wellhead PSI = N/A psi Breakdown: 5,544 psi Max Rate: 75.5 BPM Avg Rate: 65.5 BPM Max Pressure: 8,054 psi Avg Pressure: 7,311 psi Total Prop: 311,630 lbs 30/50 Premium White:272,660 lbs 20/40 Premium White: 0 lbs 16/30 CRC Resin: 38,970 Max Prop Conc.: 4.3 ppg Hybor G 10# : 2397 bbls Slick Water: 2430 bbls 15% FE Acid: 71.4 bbls Load To Recover: 4,899 bbls ISIP: 4,194 psi 5 min: 3,951 psi FG: 0.85 psi/ft
SICP: 3800 psi Perf Stage #7 (2nd Bonesprings F/ 13,772' - 113,993') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 15% FE HCl and treated water @ 15 bpm @ 190 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 14,018'. Test plug to 5500 psi. P/U and perforate, pumping 3 bpm. Shut down pump after all guns fired. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 13,993 - 13,995' 6 spf 12 shots 19 gm 60 degree phase 13,936 - 13,938' 6 spf 12 shots 19 gm 60 degree phase 13,882 - 13,883' 6 spf 6 shots 19 gm 60 degree phase 13,827 - 13,828' 6 spf 6 shots 19 gm 60 degree phase 13,772 - 13,773' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes.
Frac Stage #7 (2nd Bonesprings F/13,772' - 13,993') N2 Pop off set @ 8300 psi, Kickouts staggered 8100 - 8300, Backside pressure 600 - 800 psi Shut-in Wellhead PSI = 3450 psi Breakdown: 5,697 psi Max Rate: 77.3 BPM Avg Rate: 61.7 BPM Max Pressure: 8,071 psi Avg Pressure: 7,365 psi Total Prop: 301,750 lbs 30/50 Premium White:255,900 lbs 20/40 Premium White: 0 lbs 16/30 CRC Resin: 45,850 Max Prop Conc.: 4.8 ppg Hybor G 10# : 2328 bbls Slick Water: 2367 bbls 15% FE Acid: 71.4 bbls Load To Recover: 4,767 bbls ISIP: 4,056 psi 5 min: 3,978 psi FG: 0.86 psi/ft Lost 2 pumps during frac. Unable to maintain >70 bpm

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

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SICP: 3800 psi Perf Stage #8 (2nd Bonesprings F/ 13,494' - 13,715') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 15% FE HCl and treated water @ 15 bpm @ 190 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 13,747'. Test plug to 5500 psi. P/U and perforate, pumping 3 bpm. Shut down pump after all guns fired. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 13,715 - 13,717' 6 spf 12 shots 19 gm 60 degree phase 13,658 - 13,660' 6 spf 12 shots 19 gm 60 degree phase 13,604 - 13,605' 6 spf 6 shots 19 gm 60 degree phase 13,549 - 13,550' 6 spf 6 shots 19 gm 60 degree phase 13,494 - 13,495' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes.
Frac Stage #8 (2nd Bonesprings F/13,494' - 13,715') N2 Pop off set @ 8300 psi, Kickouts staggered 8100 - 8300, Backside pressure 600 - 800 psi Shut-in Wellhead PSI = 3800 psi Breakdown: 7,123 psi Max Rate: 80.3 BPM Avg Rate: 79.6 BPM Max Pressure: 7,724 psi Avg Pressure: 6,466 psi Total Prop: 306,310 lbs 30/50 Premium White:262,410 lbs 20/40 Premium White: 0 lbs 16/30 CRC Resin: 43,900 Max Prop Conc.: 4.44 ppg Hybor G 10# : 2307 bbls Slick Water: 3428 bbls 15% FE Acid: 71.4 bbls Load To Recover: 5,807 bbls ISIP: 4,130 psi 5 min: 3,973 psi FG: 0.86 psi/ft Had computer issues ~ half way thru 1.0 ppg stage. Computer giving false readings indicating an instant 1000 psi pressure drop with a >5 bpm rate increase. Also showed <50% efficiency on tub. Near end of stage, went to flush. Cleared wellbore. Fixed computer problems. Pumped 5000 gal pad. Reran 1.0 ppg stage and finished remainder of Stage 8 with no issues. Used <30 minutes to correct issue. No NPT assigned.
SICP: 3785 psi Perf Stage #9 (2nd Bonesprings 13,216' - 13,439') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 20% FE HCl and treated water @ 15 bpm @ 190 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 13,466'. Test plug to 5500 psi. P/U and perforate, pumping 3 bpm. Shut down pump after all guns fired. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 13,437' - 13,439' 6 spf 12 shots 19 gm 60 degree phase 13,380' - 13,382' 6 spf 12 shots 19 gm 60 degree phase 13,326' - 13,327' 6 spf 6 shots 19 gm 60 degree phase 13,271' - 13,272' 6 spf 6 shots 19 gm 60 degree phase 13,216' - 13,217' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes.

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

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3,508.00	3,533.00	3,533.00, 6/4/2014		

Com
Frac Stage #9 (2nd Bonesprings 13,216' - 13,439') N2 Pop off set @ 8,300 psi, Kickouts staggered 8,100 - 8,300, Backside pressure 600 - 800 psi Shut-in Wellhead PSI = 3,630 psi Breakdown: 5,670 psi Max Rate: 87.2 BPM Avg Rate: 80.1 BPM Max Pressure: 7,866 psi Avg Pressure: 6,550 psi Total Prop: 282,951 lbs 30/50 Premium White: 241,674 lbs 20/40 Premium White: 0 lbs 16/30 CRC Resin: 41,277 lbs Max Prop Conc.: 4.22 ppg Hybor G 15# : 2,343.3 bbls Slick Water: 2,627.3 bbls 20% FE Acid: 71.4 bbls Load To Recover: 5,043 bbls ISIP: 4,238 psi 5 min: 4,046 psi FG: 0.82 psi/ft
SICP: 3,800 psi Perf Stage #10 (2nd Bonesprings 12,938' - 13,161') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 20% FE HCl and treated water @ 15 bpm @ 190 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 13,188'. Test plug to 5500 psi. P/U and perforate, pumping 3 bpm. Shut down pump after all guns fired. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 13,159' - 13,161' 6 spf 12 shots 19 gm 60 degree phase 13,102' - 13,104' 6 spf 12 shots 19 gm 60 degree phase 13,048' - 13,049' 6 spf 6 shots 19 gm 60 degree phase 12,993' - 12,994' 6 spf 6 shots 19 gm 60 degree phase 12,938' - 12,939' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes.
Begin Stage #10 Frac
Report Start Date: 9/17/2014
Com
Frac Stage #10 (2nd Bonesprings 12,938' - 13,161') N2 Pop off set @ 8,300 psi, Kickouts staggered 8,100 - 8,300, Backside pressure 600 - 800 psi Shut-in Wellhead PSI = 3,630 psi Breakdown: 7,842 psi Max Rate: 86.8 BPM Avg Rate: 82.5 BPM Max Pressure: 7,829 psi Avg Pressure: 7,188 psi Total Prop: 313,478 lbs 30/50 Premium White: 273,186 lbs 20/40 Premium White: 0 lbs 16/30 CRC Resin: 40,292 lbs Max Prop Conc.: 4.73 ppg Hybor G 15# : 2299.5 bbls Slick Water: 2329.6 bbls 20% FE Acid: 71.4 bbls Load To Recover: 4701 bbls ISIP: 4,199 psi 5 min: 4,008 psi FG: 0.81 psi/ft

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

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3,508.00	3,533.00	3,533.00, 6/4/2014		

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SICP: 3,800 psi Perf Stage #11 (2nd Bonesprings 12,660' - 12,883') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 20% FE HCl and treated water @ 15 bpm @ 190 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 12,910'. Test plug to 5500 psi. P/U and perforate, pumping 3 bpm. Shut down pump after all guns fired. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 12,881' - 12,883' 6 spf 12 shots 19 gm 60 degree phase 12,824' - 12,826' 6 spf 12 shots 19 gm 60 degree phase 12,770' - 12,771' 6 spf 6 shots 19 gm 60 degree phase 12,715' - 12,716' 6 spf 6 shots 19 gm 60 degree phase 12,660' - 12,661' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes.
Frac Stage #11 (2nd Bonesprings 12,660' - 12,883') N2 Pop off set @ 8,300 psi, Kickouts staggered 8,100 - 8,300, Backside pressure 600 - 800 psi Shut-in Wellhead PSI = 3,673 psi Breakdown: 7,603 psi Max Rate: 86 BPM Avg Rate: 81 BPM Max Pressure: 7,995 psi Avg Pressure: 7,139 psi Total Prop: 329,922lbs 30/50 Premium White: 283,125 lbs 20/40 Premium White: 0 lbs 16/30 CRC Resin: 46,796 lbs Max Prop Conc.: 4.7 ppg Hybor G 15# : 2474 bbls Slick Water: 2305 bbls 20% FE Acid: 71.4 bbls Load To Recover: 4,851 bbls ISIP: 4,300 psi 5 min: 4,182 psi FG: 0.82 psi/ft
SICP: 3,800 psi Perf Stage #12 (2nd Bonesprings 12,382' - 12,605') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3000 gal 20% FE HCl and treated water @ 15 bpm @ 190 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 12,632'. Test plug to 5500 psi. P/U and perforate, pumping 3 bpm. Tools were stuck after perforating 3rd gun @ 12,492'. Attempted to work tools free by pulling on line & by surging well to tank several times. Unable to work loose. Pulled ~200# tension on line & fired 4th gun in attempt to jar tools free. No success. Fired 5th gun w/ ~300# tension while pumping 6.0 bpm. Tools still stuck. Slacked off on line. Mixed & pumped 50 bbls, 20 ppg, 18 vis gel sweep at 20 bpm. With sweep @ ~10,000', tools began to slide downhole. Shut down pumps. POOH w/ all tools. Note: All guns perforted throughout the job have been perforated on the fly. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 12,603' - 12,605' 6 spf 12 shots 19 gm 60 degree phase 12,546' - 12,548' 6 spf 12 shots 19 gm 60 degree phase 12,492' - 12,493' 6 spf 6 shots 19 gm 60 degree phase 12,490' - 12,491' 6 spf 6 shots 19 gm 60 degree phase 12,487' - 12,488' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 42 total holes. Layed down tools and re-head rope socket.

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GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

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3,508.00	3,533.00	3,533.00, 6/4/2014		

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Re-design and frac Stage #12 (2nd Bonesprings 12,487' - 12,605') N2 Pop off set @ 8,300 psi, Kickouts staggered 8,100 - 8,300, Backside pressure 900 psi Shut-in Wellhead PSI = 3,650 psi Breakdown: 7,516 psi Max Rate: 80.1 BPM Avg Rate: 57.5 BPM Max Pressure: 8,085 psi Avg Pressure: 7,223 psi Total Prop: 163,780 lbs 30/50 Premium White: 137,060 lbs 20/40 Premium White: 0 lbs 16/30 CRC Resin: 26,720 lbs Max Prop Conc.: 4.7 ppg Hybor G 15# : 1660 bbls Slick Water: 1537 bbls 20% FE Acid: 71.4 bbls Load To Recover: 3,328 bbls ISIP: 4,360 psi 5 min: 4,006 psi FG: 0.83 psi/ft
SICP: 3,800 psi Perf Stage #13 (2nd Bonesprings 12,104' - 12,431') Open well RIH, get on depth w/ CCL and short joint @ 10,608' . Pump down spotting 3500 gal 20% FE HCl and treated water @ 15 bpm @ 190 fpm. Set Halliburton 4.375" Obsidian 8K caged ball frac plug @ 12,445'. Test plug to 5500 psi. P/U and perforate, pumping 3 bpm. Shut down pump after all guns fired. Gun assy: Baker 20 setting tool, 3 1/8" guns @ 6 spf, 60 degree phasing, 19 gm, GEO-Dynamics-Basix. Perforate as follows: 12,429' - 12,431' 6 spf 12 shots 19 gm 60 degree phase 12,382' - 12,384' 6 spf 12 shots 19 gm 60 degree phase 12,325' - 12,326' 6 spf 6 shots 19 gm 60 degree phase 12,268' - 12,269' 6 spf 6 shots 19 gm 60 degree phase 12,214' - 12,215' 6 spf 6 shots 19 gm 60 degree phase 12,159' - 12,160' 6 spf 6 shots 19 gm 60 degree phase 12,104' - 12,105' 6 spf 6 shots 19 gm 60 degree phase POOH, all shots fired, 54 total holes.
Re-design and frac Stage #13 (2nd Bonesprings 12,104' - 12,431') N2 Pop off set @ 8,300 psi, Kickouts staggered 8,100 - 8,300, Backside pressure 900 psi Shut-in Wellhead PSI = 3,600 psi Breakdown: 7,280 psi Max Rate: 82.6 BPM Avg Rate: 78.5 BPM Max Pressure: 8,117 psi Avg Pressure: 6,151 psi Total Prop: 393,820 lbs 30/50 Premium White: 321,930 lbs 20/40 Premium White: 0 lbs 16/30 CRC Resin: 71,890 lbs Max Prop Conc.: 4.86 ppg Hybor G 15# : 3270 bbls Slick Water: 2425 bbls 20% FE Acid: 71.4 bbls Load To Recover: 5,778 bbls ISIP: 4,300 psi 5 min: N/A psi FG: 0.84 psi/ft Door on sand king plugged w/ ~80% of 3-4 ppg 30/50 sand stage and lost all sand. When crew unplugged sand king, the sand belt was overloaded and stopped the belt. Pumped >1 hole volume gelled fluid @ ~80 bpm w/ no sand. When belt came back on line, sand density was ~4.5 ppg. Continued & finished stage at rate w/ no appreciable pressure change.

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

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3,508.00	3,533.00	3,533.00, 6/4/2014		

Com
Post Job Safety Meeting - Discussed multi-contractor ops, footing, hand & body placement, striking hazards, lifting & rigging, walking w/ loads, communication, snakes. Total Job Volumes: Slickwater: 31,240 bbls Hybor G (15): 29,555 bbls Acid: 864 bbls 20/40 Sand: 892,236 lbs 30/50 Sand: 2,280,321 lbs 16/30 Resin: 564,264 lbs Total Load to Recover: 61,725 bbls
Begin rig down & release all frac equipment. Rig down restraints. Removed crown valve & goat head. NU crown valve. Begin cleaning containment.

Report Start Date: 9/18/2014

Com
Finish cleaning frac containment. Move excess equipment off location. Set containment f/ CTU.
PJSM - Discussed Tenet 8 (Always address abnormal conditions), adverse weather conditions, location traffic, slick surfaces, standing water, walking w/ loads, spotters, truck backing, climbing, overhead work, dropped objects, suspended loads, PTW, hand & body placement, striking hazards, parking & idling guidelines, pressure & spill control, line restraints, rotating equipment, communication, 4 Pts, Emergency Response, SWA.
Move in, spot & rig up Baker 2" CTU. Function test BOP's. MU 2.88" CT connector. Pull tested to 20K & 25K. Loaded CT. Pressure tested to 2500 psi. Function tested motor @ 3000 psi @ 2.5 bpm. Tested lubricator to 5000 psi. Length OD ID Description 1.23 2.88 1.50 CT Connector 1.94 2.88 1.00 Dual Flapper BPV 6.45 2.88 0.81 Global Jars 2.02 2.88 0.71 Hyd Disconnect 1.37 2.88 0.53 Circ Sub 5.14 2.88 xx Hydro Pull 10.60 2.88 xx X-Treme Motor 0.82 3.70 1.38 XO Sub 0.50 4.65 xx ShredR Bit
SIWHP 3100 psi. RIH w/ CT & BHA pumping 0.5 bpm (slick water w/ 0.5 gal FR / 10 bbl, 30 vis). Increased rate to 1.0 bpm @ 3,500'. Increased rate to 2.8 bpm @ 8,500'.
Had minimal weight loss @ 12,445' (1st plug depth) and ~1000# weight loss @ 12,632' (2nd plug depth). Did not have solid tag until 12,863'. Appeared to be 1st plug. Milled thru and appeared to mill 2nd plug @ 12,871'. Milled and washed down to plug 3 @ 12,910'. Milled and washed down to Plug 4 @ 13,188'. Milled and continued down hole. Tagged plug 5 @ 13,466'. Pumped 10 bbl (85 vis) gel sweep after each plug & at tag on plug 5. Pulled up hole and made short trip to 9850' (28' above KOP). Maintained 2.8 bpm circulating rate w/ 3.1 - 3.4 bpm returns. Plug 1 17 min Plug 2 10 min Plug 3 13 min Plug 4 7 min

Report Start Date: 9/19/2014

Com
Finish short trip. RBIH. Drilled out plugs 5 thru 8. Tagged plug 9. Short trip to 9,900'. RBIH. Drilled plugs 9 thru 11. Plug 9 moved down hole immediately at tag after short trip. Tagged RSI sleeve @ 15,442'. Pumped 10 bbl dyed sweep after each plug. Pumped 20 bbl dyed sweep @ RSI. Pumped 10 bbl sweep at heel each trip. Alll sweeps accounted for and recovered. Coil Chem pumped 0.5 gal / 10 bbl FR throughout job. Sweeps were 4.0 gal / 10 bbl FR. Estimated sand recovered during cleanout - 50,000#. Majority of sand recovered appeared to be 20/40 White and majority of sand was recovered during final 3 sweeps. Had significant plug parts recovered during entire drillout. Plug 5 14 min Plug 6 8 min Plug 7 5 min Plug 8 11 min Plug 9 0 min Plug 10 2 min Plug 11 6 min POOH w/ CT & tools. Note: Had to repair pin on level wind during 2nd short trip. No NPT shown. <1Hr to fix.
Layed down BHA. Cut off CT Connector. Had moderate / normal wear on bit. Bearings still tight.
Rigged down CTU. Prep'd flowback equipment. Transferred fluid out of flowback tanks.
Open well on 12/64" and flowback/monitor well to OTT.. Well flowing 1445 b/d, 2512 psi, cum bbls - 240 on 12/64 choke.

Summary Report

Completion
Complete
Job Start Date: 8/8/2014
Job End Date: 9/26/2014

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Report Start Date: 9/20/2014
Com
Flowing well to OTT w/ 24 hr supervision. ****00:00 - Choke @ 12/64". Final - TBG- 2512 psi @ 60 B/HR. ****04:00 - Change choke to 14/64". Final - TBG-2358 psi @ 77.22 B/HR ****09:00 - Change choke to 16/64". Final - TBG- 2320 @ 100.32 B/HR.. Cl=41,000 ppm. ****16:00 - Change choke to 18/64". Final TBG-2115 @ 1116 B/HR. ****20:00- Change choke to 20/64". Current pressure 1942 @ 116 B/HR. 24 hr fluid recovery:3,103 bbls 24 hr left to recover: 58147 bbls 24 hr oil recovery: 0 bbls Gas rate – 0 H2S None Chlorides: 40,000
Report Start Date: 9/21/2014
Com
Flowing well on 20/64" choke w/ 24 hr monitoring. ****0600 - Choke @ 20/64". TBG- 1908 psi @ 116 B/HR. ****12:00 - Choke at 20/64". TBG-1784 psi @ 106 B/HR ****17:00 - Choke at 20/64". TBG- 1706 @ 107 B/HR.. Cl=43,000 ppm. 24 hr fluid recovery:4,545 bbls 24 hr left to recover: 56,706 bbls 24 hr oil recovery: 0 bbls Gas rate – 0 H2S None Chlorides: 43,000 SHUT IN WELL.
WELL SHUT IN PENDING SETTING PACKER.
Report Start Date: 9/22/2014
Com
Well shut in. Wait on weather to improve to set packer
Report Start Date: 9/23/2014
Com
WELL SHUT IN.
HSE MEETING - DISCUSSED TENENT OF THE DA.Y, EMERGENCY RESPONSE, USING SPOTTERS WHEN BACKING EQUIPMENT, COVERING EACH OTHERS BACKS, KEEPING POSTIVE ATTITUDES AND THE EXPECTATION TO STOP THE JOB NO MATTER WHAT.
SPOT PUMP EQUIPMENT AND RU PUMP LINES. TESTED LINES TO 5000 PSI FOR 5 MIN. - TEST GOOD.
WO ROAD TO LOCATION TO BE FILLED IN DUE TO WASHOUTS. hEAVY EQUIPMENT WAS NOT ALLOWED TO PASS UNTIL THE ROAD WAS REPAIRED.
REVIEW WORK SCOPE WITH EPS, ARCHER, PETROPLEX, BAKER AND CHEVRON.
SPOT ARCHER WL AND CRANE AND PREP TO BULLHEAD WELL.
EQUALIZE WELL WITH 2365 PSI. OPEN WELL AND PUMP 278 BBLS (VOL TO TOP PERS) FRESH WATER. SHUT IN WELL
ND CAP FLANGE, AND INSTALL 10K x 5K LUBICATOR ADAPTOR FLANGE. mU MU 4.625" GUAGE RING / JUNK BASKET, PU LUB AND TEST TO 4000 PSI - TEST GOOD.
ATTEMPT TO RIH. WT. OF TOOLS WOULD NOT OVERCOME WELL PRESSURE. LD LUB/TOOLS AND ADD TWO WEIGHT BARS. PU TOOLS / LUB AND MU ON WELL. tEST LUB TO 4000 PSI - TEST GOOD.
RIH. RAN 4.62 OD GAUGE RING/JUNK BASKET TO 10600' (TOP OF SHORT JOINT AT 10583') POOH LD GAUGE BHA.
WO ARCHER TO GET GREASE AND PACK-OFF HOSE TO LOCATION.
Report Start Date: 9/24/2014
Com
WO GREASE AND PACK-OFF HOSES FOR ARCHER WL.
BULLHEAD 100 BBLS INTO WELL.

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

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3,508.00	3,533.00	3,533.00, 6/4/2014		

Com
PU BAKER HORNET PACKER. TEST LUB TO 4000 PSI - TEST GOOD. SET MIDDLE ELEMENT AT 9928' POOH Top of X profile nipple/O&O Tool 9924' BHA ID OD Length X nipple O/O tool 2.313 3.15 1.27 HORNET PACKER 2.37 4.6 9.17 Pup Jt 2.441 2.875 6.1 XN Nipple 2.205 2.875 1.25 2.875 Collar 2.37 3.680 .45 Pup Jt 2.441 2.875 4.10 Pump out 2.44 2.875 .50 Total 22.84 Pump Out Set (3 pins) @ or around 3284 PSI
LD LUB / TOOLS, REMOVE 10K x 5K LUB AND RD ARCHER. CLEAN WORK AREA. PERFORM NEGATIVE TEST ON PACKER FOR 30 MIN - GOOD. LEAVE WELL OPEN TO OTT. START FLOWBACK RD. START FESCO FLOWBACK RD.
SPOT CRANE, ND CROWN VALVE, HYDRAULIC TOP MASTER, SET BACK PRESSURE VALVE, REMOVE LOWER MASTER AND INSTALL NIGHT CAP. REMOVING PRODIGAL SUN FLOWBACK WATER FROM GRAMMA RIDGE FRAC TANKS TO DISPOSAL. LOAD FESCO EQUIPMENT ON TRUCKS. ******HANDOVER TO PRODUCTION (WOR) COMPLETED 9-24-14.@ 14;45
RU PU ON WELL, SDFN
CREW TRAVEL FROM LOCATION
WELL SI NO ACTIVITY
Report Start Date: 9/25/2014
Com
WELL SI NO ACTIVITY
CREW TRAVEL TO LOCATION
NO SAFETY OR ENVIRONMENTAL ISSUES TO REPORT TENENT #5 ALWAYS MEET OR EXCEED CUTOMER'S REQUIREMENTS HAZARD WHEEL: PRESSURE 360 MY SPACE: SLIPS TRIPS OR FALLS SAFE RIG UP PROCEDURES, LINE OF FIRE, HAND PLACEMENT, CRUSH POINTS, SPOTTERS, TAG LINE USE, H2S HAZARDS, COMMUNICATION, WEATHER AND STOP WORK AUTHORITY
CHECK WELL, 400PSI, BLED OFF PRESSURE, NU BOPE, SWAP BPV FOR TWC, PT BLINDS THEN RAMS 250PSI LOW & 1,000PSI HIGH (PT GOOD, PULL TWC & HANGER
MU ON/OFF TOOL & TIH W/ 2.875 L80 PRODUCTION STRING & SPACE OUT, SECURE WELL & SDFN
CREW TRAVEL FROM LOCATION
WELL SI NO ACTIVITY
Report Start Date: 9/26/2014
Com
WELL SI NO ACTIVITY
CREW TRAVEL TO LOCATION
NO SAFETY OR ENVIRONMENTAL ISSUES TO REPORT TENENT #6 MAINTAIN INTEGRITY OF DEDICATED SYSTEMS HAZARD WHEEL: TEMPERATURE 360 MY SPACE: SLIPS TRIPS OR FALLS SAFE RIG UP PROCEDURES, LINE OF FIRE, HAND PLACEMENT, CRUSH POINTS, SPOTTERS, TAG LINE USE, H2S HAZARDS, COMMUNICATION, WEATHER AND STOP WORK AUTHORITY
SPACE OUT PROD TBG
CIRCULATE WELL CLEAN WITH PACKER FLUID
LATCH ON/OFF TOOL & LAND HANGER, PT CSG TO 500PSI, PT GOOD, SET BPV, ND BOPE
NU TREE, PT VOID TO 5,000PSI, PT GOOD, SWAP BPV TO TWC, PT TREE TO 2,500PSI, PT GOOD, REMOVE TWC
PUMP THROUGH TREE & PUMP OUT PLUG, PLUG PUMPED FREE @ 3,800PSI, 2,600PSI ON WELL WHEN SI @ TREE
RD PU & EQUIPMENT
CREW TRAVEL FROM LOCATION
WELL SI NO ACTIVITY

Summary Report

Well Services
Pump Repair
Job Start Date: 11/19/2014
Job End Date: 12/1/2014

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Report Start Date: 11/19/2014
Com
DAY 1-- WRITE AND REVIEW RIG MOVE,ROAD RIG TO LOCATION,HELD JSA'S AND TENENT #9,MI SURFACE EQUIPMENT,SPOT WSU,SDON.PROJECTED OPERATIONS:RU WSU,KILL WELL,NDWH,NUBOP,RELEASE PKR,POOH W/TBG,RIH W/KILLSTRING.
Report Start Date: 11/20/2014
Com
DAY 2-- WRITE AND REVIEW JSA'S AND TENENT #10,RU WSU,SITP 100# SICP 0#,BLEED WELL DOWN,PUMP DOWN WELL TO VACUUM,FUNCTION TEST BOP,NDWH,NU BOP,WORKED TBG TO RELEASE PKR COULDN'T,RU POWER SWIVEL,WORKED PKR LOOSE,POOH W/TBG 210 JTS,SHUT WELL IN AND SDON.PROJECTED OPERATIONS:POOH W/KILL,RU HYDROTESTERS,RIH WHILE TESTING TBG,RD HYDROTESTERS,SET TAC,RELEASE OFF DESANDER,CIRCULATE WELL.
Report Start Date: 11/21/2014
Com
DAY 3-- WRITE AND REVIEW JSA'S AND TENENT #1, 150#,BLEED WELL DOWN,PUMP DOWN WELL TO VACUUM,POOH W/KILLSTRING, RU HYDROTESTERS,PU NEW BHA AND RIH TESTING TBG,RD TESTERS,SHUT WELL IN AND SDFW.PROJECTED OPERATOINS:FINISH PU NEW TBG,SET TAC,GET OFF ON/OFF TOOL,CIRCULATE WELL,POOH W/TBG.
Report Start Date: 11/24/2014
Com
DAY 4-- WRITE AND REVIEW JSA'S AND TENENT #4, SITP 120#,SICP 150#,BLEED WELL DOWN,PUMP DOWN WELL TO VACUUM,PU 27 JTS,SET TAC @10457,CIRCULATED WELL 210 BBW,NO CIRCULATION,POOH WITH TBG,LEFT KILLSTRING IN WELL,SHUT WELL IN AND SDON.PROJECTED OPERATIONS:KILL WELL,POOH W/KILLSTRING,RU SPOOLERS,PU ESP AND RIH W/CABLE AND CT LINE,CONNECT QCI.
Report Start Date: 11/25/2014
Com
DAY 5-- WRITE AND REVIEW JSA'S AND TENENT #5,SITP 0#,SICP 0#,TALKED TO ESP TECH AND WAS INFORMED THAT THE EQUIPMENT WOULDN'T BE ON LOCATION UNTIL 12:00 PM MT,THEY WERE STILL WORKING ON ONE OF THE PUMPS,SHUT WELL IN AND SDON.PROJECTED OPERATIONS:KILL WELL,POOH W/KILLSTRING,RU SPOOLERS,PU ESP AND RIH W/CABLE AND CT LINE,CONNECT QCI.
Report Start Date: 11/26/2014
Com
DAY 6 -- WRITE AND REVIEW JSA'S AND TENENT # 6, SITP 0# SICP 0#, TOH W/ KILL STRING, PICK UP SUB PUMP ASSY, RIG UP SPOOLERS, TIH W/ TBG , ADDING 4 BANDS PER STD FOR CABLE AND CHEM LINE, MAKE QCI CONN, N/D BOP, N/U WH. CENTRILIFT REP NOTICED ELECTRICAL WIRING WAS WRONG. CONTACTED ALCR, HE SCHEDULED FOR A GANG, ELECTRICIAN, FIELD SPECIALIST & CENTRILIFT REP TO MAKE FINAL ADJUSTMENTS AND START UP. VERIFIED ISOLATED, SDFN. PROJECTED OPERATIONS: RDMO TO NEXT LOCATION.
Report Start Date: 12/1/2014
Com
DAY 7 -- WAITED 3 HOURS ON WSM, REVIEW JSA'S & TENENT #1, WRITE PTW, RIGGED DOWN WSU, CLEANED LOCATION, NOTIFIED DSC OF RIG MOVE. MOVE TO NEXT WELL.

Report Printed: 12/17/2014

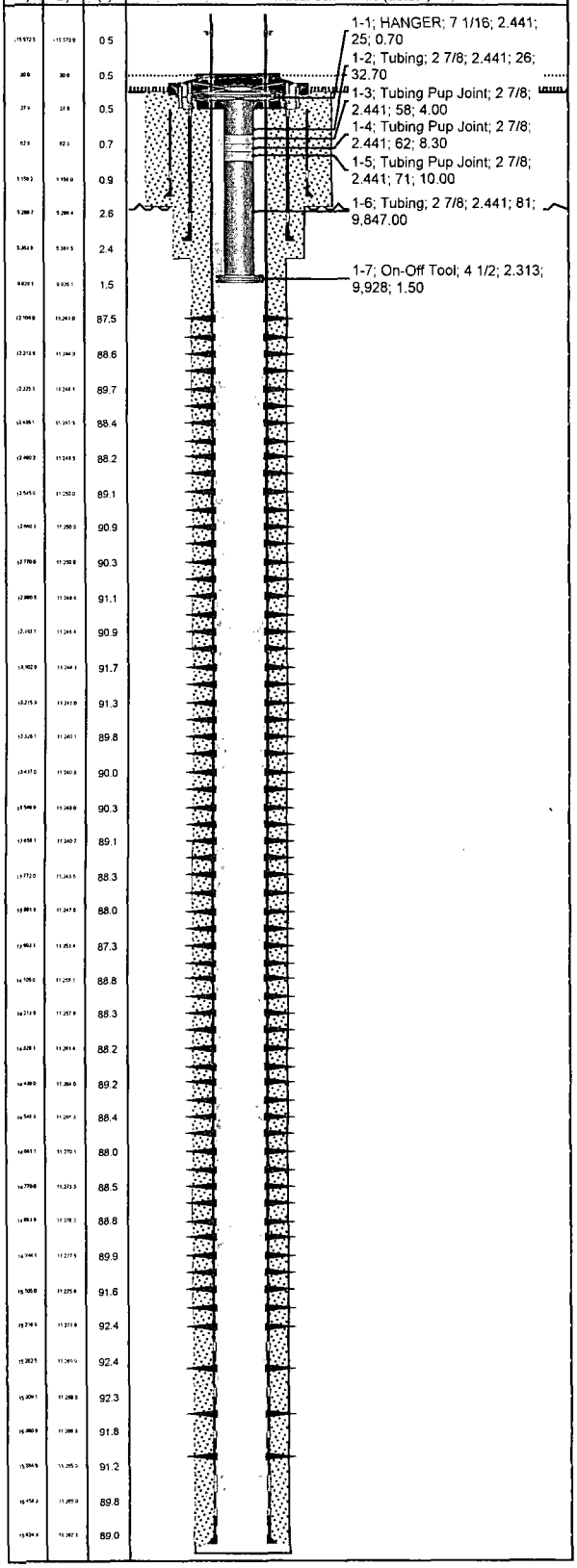
Tubing Summary

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

Ground Elevation (ft)	Original RKB Elevation (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Current KB to Ground (ft)	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)
25.00			

Land - Original Hole, 9/26/2014 9:00:00 AM



Tubing Strings

Tubing Description	Planned Run?	Set Depth (MD) (ftKB)	Set Depth (TVD) (ftKB)
Tubing - Production	N	9,929.2	9,926.2

Run Date	Run Job	Pull Date	Pull Job
9/26/2014	Complete, 8/8/2014 10:00	11/24/2014	Pump Repair, 11/19/2014 07:00

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
	HANGER	7 1/16	2.441				0.70	25.0	25.7
	Tubing	2 7/8	2.441	6.50	L-80		32.70	25.7	58.4
	Tubing Pup Joint	2 7/8	2.441	6.50	L80		4.00	58.4	62.4
	Tubing Pup Joint	2 7/8	2.441	6.50	L80		8.30	62.4	70.7
	Tubing Pup Joint	2 7/8	2.441	6.50	L80		10.00	70.7	80.7
	Tubing	2 7/8	2.441	6.50	L-80		9,847.00	80.7	9,927.7
	On-Off Tool	4 1/2	2.313				1.50	9,927.7	9,929.2

Rod Strings

Rod Description	Planned Run?	Set Depth (ftKB)	Set Depth (TVD) (ftKB)

Run Date	Run Job	Pull Date	Pull Job

Rod Components

Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)

Report Printed: 12/17/2014

Tubing Summary

Well Name	Lease	Field Name	Business Unit
GRAMMA RIDGE 14-24-34 002H	Gramma Ridge 14-24-34	Red Hills North	Mid-Continent

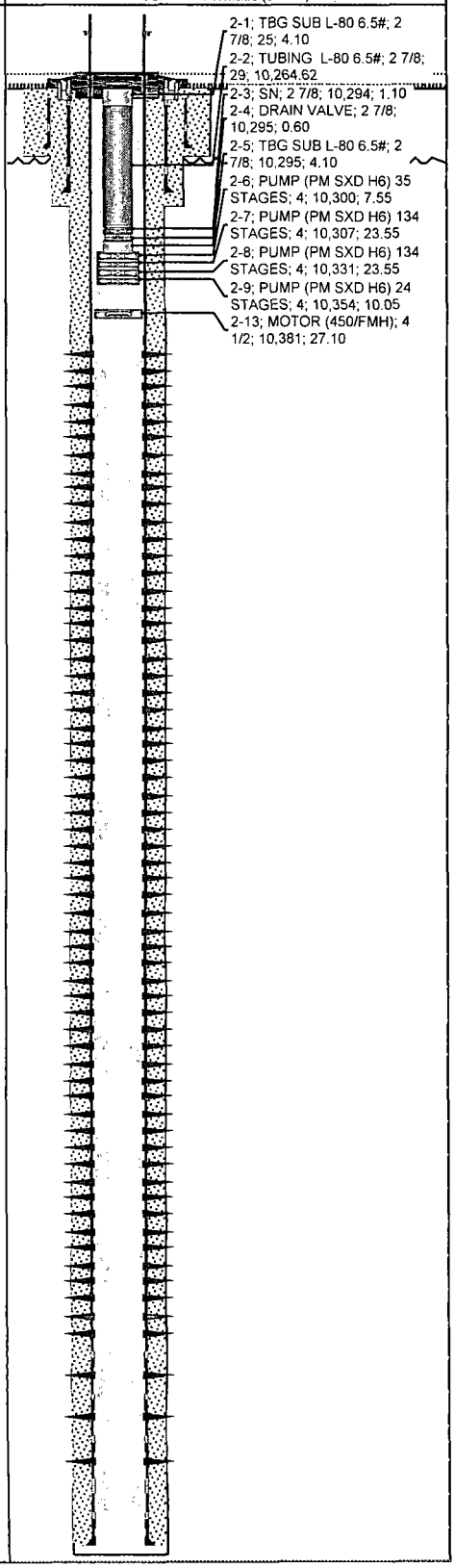
Ground Elevation (ft)	Original RKB Elevation (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,508.00	3,533.00	3,533.00, 6/4/2014		

Current KB to Ground (ft)	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)
25.00			

Land - Original Hole, 11/26/2014 7:00:00 AM

MD (ftKB)	TVD (ftKB)	Incl (°)
25.0	25.0	0.5
29.0	29.0	0.5
29.2	29.2	0.5
1,313.5	1,312.8	1.0
5,248.0	5,247.7	2.6
5,870.1	5,867.7	2.4
10,295.3	10,292.1	1.7
10,354.3	10,351.1	1.5
10,386.6	10,383.3	1.5
10,432.4	10,429.2	1.5
12,162.1	11,443.1	87.9
12,268.0	11,445.5	89.6
12,383.9	11,446.7	88.7
12,487.4	11,448.5	88.2
12,493.1	11,448.5	88.3
12,605.9	11,450.5	90.1
12,715.6	11,450.5	90.3
12,826.1	11,448.8	91.2
12,849.9	11,447.3	90.9
13,048.6	11,445.2	91.2
13,161.1	11,443.4	91.7
13,272.9	11,442.2	90.2
13,381.9	11,442.2	89.8
13,495.1	11,442.2	90.2
13,605.8	11,442.2	89.7
13,716.5	11,443.2	88.7
13,826.1	11,445.1	87.9
13,938.0	11,446.1	87.8
14,050.9	11,448.5	88.1
14,161.1	11,450.3	88.7
14,271.0	11,452.0	87.7
14,383.9	11,453.6	88.7
14,494.1	11,455.1	88.8
14,607.0	11,456.1	87.9
14,716.5	11,372.8	88.3
14,829.1	11,374.8	88.6
14,940.3	11,377.0	89.3
15,049.5	11,377.0	90.8
15,163.1	11,374.0	92.4
15,251.2	11,373.4	92.4
15,363.5	11,368.3	92.3
15,328.1	11,367.8	92.2
15,362.9	11,366.8	91.3
15,417.3	11,365.2	90.5
15,542.1	11,365.1	89.2

Vertical schematic (actual)



Tubing Strings

Tubing Description	Planned Run?	Set Depth (MD) (ftKB)	Set Depth (TVD) (ftKB)
Tubing	N	10,411.9	10,408.7

Run Date	Run Job	Pull Date	Pull Job
11/26/2014	Pump Repair, 11/19/2014 07:00		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	TBG SUB L -80 6.5#	2 7/8		6.50	L-80		4.10	25.0	29.1
313	TUBING L-80 6.5#	2 7/8		6.50	L-80		10,264.62	29.1	10,293.7
1	SN	2 7/8					1.10	10,293.7	10,294.8
1	DRAIN VALVE	2 7/8					0.60	10,294.8	10,295.4
1	TBG SUB L -80 6.5#	2 7/8		6.50	L-80		4.10	10,295.4	10,299.5
1	PUMP (PM SXD H6) 35 STAGES	4					7.55	10,299.5	10,307.1
1	PUMP (PM SXD H6) 134 STAGES	4					23.55	10,307.1	10,330.6
1	PUMP (PM SXD H6) 134 STAGES	4					23.55	10,330.6	10,354.2
1	PUMP (PM SXD H6) 24 STAGES	4					10.05	10,354.2	10,364.2
1	Gas separator						4.30	10,364.2	10,368.5
1	SEAL						6.10	10,368.5	10,374.6
1	SEAL						6.10	10,374.6	10,380.7
1	MOTOR (450/FMH)	4 1/2					27.10	10,380.7	10,407.8
1	CENTINEL						4.10	10,407.8	10,411.9

Rod Strings

Rod Description	Planned Run?	Set Depth (ftKB)	Set Depth (TVD) (ftKB)

Run Date	Run Job	Pull Date	Pull Job

Rod Components

Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)

Report Printed: 12/17/2014