

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

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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. 30-025-41811
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		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 GRAMMA RIDGE 14 24 34
4. Well Location Unit Letter: B 330 feet from NORTH line and 2300 feet from the EAST line Section 14 Township 24S Range 34E NMPM County LEA		8. Well Number 1H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3492' GL		9. OGRID Number 4323
		10. Pool name or Wildcat RED HILLS; BONE SPRING, NORTH

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

NOTICE OF INTENTION TO:

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

SUBSEQUENT REPORT OF:

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

OTHER: NEW 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.

12/10/2014: MIRU PERFORATING GUNS. PERFORATIONS: 15,506-511. 12/13/2014: PERFORATIONS: 15,279-455,
12/14/2014: PERFORATIONS: 14,409-15,223. 12/15/2014: PERFORATIONS: 13,539-14,353. 12/16/2014: PERFORATIONS:
12,089-13,483. 12/17/2014: PERFORATIONS: 11,509-12,033

12/10/2014 THROUGH 12/17/2014: FRAC W/TOTAL PROP: 3,927,941 LBS, 20/40 WHITE: 2,987,715 LBS, CRC: 787,064 LBS.
ACID: 995 BBLS, WTR: 25,358 BBLS, HYBOR G R 40,090 BBLS, 10# WTR FRAC: 12,112 BBLS.

02/13/2014: 2 7/8" TBG SET @ 10,575.

02/18/2014: RIG DOWN.

2/26/2015: ON 24 HR OPT. FLOWING 381 OIL, 586 GAS, & 455 WATER. GOR-1538. 23/64" CHOKE. FTP-475 PSI.

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 03/12/2015

Type or print name DENISE PINKERTON
For State Use Only

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

APPROVED BY: [Signature] TITLE Petroleum Engineer

DATE 03/23/15

Conditions of Approval (if any):

MAR 26 2015



Casing Summary

Well Name GRAMMA RIDGE 14-24-34 001H		Lease Gramma Ridge 14-24-34		Field Name Red Hills North		Business Unit Mid-Continent	
Ground Elevation (ft) 3,492.00	Original RKB (ft) 3,517.00	Current RKB Elevation 3,517.00, 9/3/2014				Mud Line Elevation (ft)	Water Depth (ft)

Surface, Planned?-N, 1,225ftKB

Set Depth (MD) (ftKB) 1,225		Set Tension (kips)		String Nominal OD (in) 13 3/8		String Min Drift (in)		Centralizers 11		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	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	20	20	0.00		
1	Wellhead	13 3/8	12.715	48.00	H-40		20	28	8.00		
1	Pup joint	13 3/8	12.715	48.00	H-40	ST&C	28	32	4.00		
26	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	32	1,179	1,146.56		
1	Float Collar	13 3/8	12.715			ST&C	1,179	1,180	1.32		
1	Casing Joint	13 3/8	12.715	48.00	H-40	ST&C	1,180	1,224	44.13		
1	Float Shoe	13 3/8	12.715			ST&C	1,224	1,225	0.68		

Intermediate Casing 1, Planned?-N, 5,338ftKB

Set Depth (MD) (ftKB) 5,338		Set Tension (kips)		String Nominal OD (in) 9 5/8		String Min Drift (in) 8.688		Centralizers 37		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/Pup JT	9 5/8	8.844			LT&C	24	29	5.00		
13	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	29	5,255	5,226.34		
5											
1	Float Collar	9 5/8	8.844			LT&C	5,255	5,256	1.22		
1	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	5,256	5,296	39.66		
1	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	5,296	5,336	40.23	3,950.0	4,230.0
1	Float Shoe	9 5/8	8.844			LT&C	5,336	5,338	1.63		

Production Casing, Planned?-N, 15,643ftKB

Set Depth (MD) (ftKB) 15,643		Set Tension (kips)		String Nominal OD (in) 5 1/2		String Min Drift (in) 4.781		Centralizers BS-50/TESCO-69		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	Casing Pup Joint	5 1/2	4.892	17.00	P-110	CDC	25	25	0.00	10,640.0	7,480.0
1	Casing Hanger	5 1/2	4.892	17.00	P-110	CDC	25	25	0.25	10,640.0	7,480.0
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110	CDC	25	28	3.27	10,640.0	7,480.0
1	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	28	66	37.90	10,640.0	7,480.0
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110	CDC	66	76	9.33	10,640.0	7,480.0
3	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	76	198	122.00	10,640.0	7,480.0
2	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	198	279	81.51	10,640.0	7,480.0
2	Casing Joint	5 1/2	4.906	17.00	P-110	CDC	279	361	81.45	10,640.0	7,480.0
86	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	361	3,828	3,467.21	10,640.0	7,480.0
1	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	3,828	3,869	40.95	10,640.0	7,480.0
16	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	3,869	10,646	6,776.90	10,640.0	7,480.0
8											
1	Marker Joint	5 1/2	4.906	17.00	P-110	CDC	10,646	10,655	9.72	10,640.0	7,480.0
1	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	10,655	10,695	39.72	10,640.0	7,480.0
11	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	10,695	15,500	4,804.54	10,640.0	7,480.0
9											
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110	CDC	15,500	15,506	6.09	10,640.0	7,480.0
1	RSI Tool/Toe Sleeve	5 1/2	4.892	17.00	P-110	CDC	15,506	15,511	5.55	10,640.0	7,480.0
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110	CDC	15,511	15,517	5.65	10,640.0	7,480.0
1	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	15,517	15,557	40.19	10,640.0	7,480.0
1	Landing Collar	5 1/2	4.892	17.00	P-110	CDC	15,557	15,559	1.55	10,640.0	7,480.0
1	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	15,559	15,600	40.80	10,640.0	7,480.0
1	Float Collar	5 1/2	4.892	17.00	P-110	CDC	15,600	15,601	1.28	10,640.0	7,480.0
1	Casing Joint	5 1/2	4.892	17.00	P-110	CDC	15,601	15,641	40.65	10,640.0	7,480.0
1	Float Shoe	5 1/2	4.892	17.00	P-110	CDC	15,641	15,643	1.55	10,640.0	7,480.0



Cement Summary

Production Casing Cement

Well Name GRAMMA RIDGE 14-24-34 001H	Lease Gramma Ridge 14-24-34	Field Name Red Hills North	Business Unit Mid-Continent
Ground Elevation (ft) 3,492.00	Original RKB (ft) 3,517.00	Current RKB Elevation 3,517.00, 9/3/2014	Mud Line Elevation (ft) Water Depth (ft)

Original Hole

Wellbore Name Original Hole	Directional Type Horizontal	Kick Off Depth (ftKB) 10,629	Vertical Section Direction (*) 175.61
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
17 1/2	25.0	1,235.0	
12 1/4	1,235.0	5,348.0	
8 3/4	5,348.0	15,663.0	

<typ>, <make> on <dtmstart>

Type	Install Date				
Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 1,225ftKB

Casing Description Surface	Wellbore Original Hole	Run Date 9/10/2014	Set Depth (MD) (ftKB) 1,225	Stick Up (ftKB) -20.3	Set Tension (kips)
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Centralizers 11	Scratchers
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Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Joint	13 3/8	12.715	48.00	H-40		ST&C	0.00	20	20
1	Wellhead	13 3/8	12.715	48.00	H-40			8.00	20	28
1	Pup joint	13 3/8	12.715	48.00	H-40		ST&C	4.00	28	32
26	Casing Joint	13 3/8	12.715	48.00	H-40		ST&C	1,146.56	32	1,179
1	Float Collar	13 3/8	12.715				ST&C	1.32	1,179	1,180
1	Casing Joint	13 3/8	12.715	48.00	H-40		ST&C	44.13	1,180	1,224
1	Float Shoe	13 3/8	12.715				ST&C	0.68	1,224	1,225

Intermediate Casing 1, Planned?-N, 5,338ftKB

Casing Description Intermediate Casing 1	Wellbore Original Hole	Run Date 9/15/2014	Set Depth (MD) (ftKB) 5,338	Stick Up (ftKB) -23.9	Set Tension (kips)
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Centralizers 37	Scratchers
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Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Hanger/Pup JT	9 5/8	8.844				LT&C	5.00	24	29
135	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	5,226.34	29	5,255
1	Float Collar	9 5/8	8.844				LT&C	1.22	5,255	5,256
1	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	39.66	5,256	5,296
1	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	40.23	5,296	5,336
1	Float Shoe	9 5/8	8.844				LT&C	1.63	5,336	5,338

Production Casing, Planned?-N, 15,643ftKB

Casing Description Production Casing	Wellbore Original Hole	Run Date 10/2/2014	Set Depth (MD) (ftKB) 15,643	Stick Up (ftKB) -24.9	Set Tension (kips)
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Centralizers BS-50/TESCO-69	Scratchers
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Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		CDC	0.00	25	25
1	Casing Hanger	5 1/2	4.892	17.00	P-110		CDC	0.25	25	25
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		CDC	3.27	25	28
1	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	37.90	28	66
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		CDC	9.33	66	76
3	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	122.00	76	198
2	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	81.51	198	279
2	Casing Joint	5 1/2	4.906	17.00	P-110		CDC	81.45	279	361
86	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	3,467.21	361	3,828
1	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	40.95	3,828	3,869
168	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	6,776.90	3,869	10,646
1	Marker Joint	5 1/2	4.906	17.00	P-110		CDC	9.72	10,646	10,655
1	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	39.72	10,655	10,695
119	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	4,804.54	10,695	15,500
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		CDC	6.09	15,500	15,506
1	RSI Tool/Toe Sleeve	5 1/2	4.892	17.00	P-110		CDC	5.55	15,506	15,511



Cement Summary

Production Casing Cement

Well Name GRAMMA RIDGE 14-24-34 001H		Lease Gramma Ridge 14-24-34		Field Name Red Hills North		Business Unit Mid-Continent	
Ground Elevation (ft) 3,492.00	Original RKB (ft) 3,517.00	Current RKB Elevation 3,517.00, 9/3/2014				Mud Line Elevation (ft)	Water Depth (ft)

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Casing Pup Joint	5 1/2	4.892	17.00	P-110		CDC	5.65	15,511	15,517
1	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	40.19	15,517	15,557
1	Landing Collar	5 1/2	4.892	17.00	P-110		CDC	1.55	15,557	15,559
1	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	40.80	15,559	15,600
1	Float Collar	5 1/2	4.892	17.00	P-110		CDC	1.28	15,600	15,601
1	Casing Joint	5 1/2	4.892	17.00	P-110		CDC	40.65	15,601	15,641
1	Float Shoe	5 1/2	4.892	17.00	P-110		CDC	1.55	15,641	15,643

Production Casing Cement, Casing, 10/3/2014 19:30

Cementing Start Date 10/3/2014		Cementing End Date 10/4/2014		Wellbore Original Hole
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Evaluation Method Returns to Surface	Cement Evaluation Results No CMT to surface
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Comment
Perform cmt job as follows:
Pressure test lines to 5550 psi
Pump 5 bbls of dyed fresh water followed by 20 bbls of Tuned Spacer III at 10.5 ppg.
Mix and pump 895 sx (403 bbls) of lead at 11.3 ppg.
Mix and pump 1090 sx (351 bbls) of 2nd lead at 12.5 ppg.
Mix and pump 135 sx (63 bbls) of tail at 15 ppg.
Drop top plug and displace cmt w/21 bbls MSA and 340 BBLS fresh water (361 bbls displacement total). Did not bump and decision was to pump addition 1 bbl (362 bbls total).
Bump plug. (362 bbls displacement total).
Check floats and complete job.
Bleed off pressure – floats held 3 bbls bleed back

Details:
Full returns throughout job.
Final circulation pressure prior to shutting down 1750 psi at 3.0 bpm
No cement or spacer to surface.
Cmt in place at 00:00 hrs on 10/4/2014.

Note: Prime lines with acid prior to pumping displacement. Lost 2.8 bbls in process.

1, 4,840.0-15,663.0ftKB					
Top Depth (ftKB) 4,840.0	Bottom Depth (ftKB) 15,663.0	Full Return? Y	Vol Cement Ret (bbl) 0.0	Top Plug? Y	Bottom Plug? N
Initial Pump Rate (bbl/min) 7	Final Pump Rate (bbl/min) 3	Avg Pump Rate (bbl/min) 5	Final Pump Pressure (psi) 1,750.0	Plug Bump Pressure (psi) 1,900.0	
Pipe Reciprocated? N	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated? N	Pipe RPM (rpm)	
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date	

<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 (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives		
Add	Type	Conc



Well Name GRAMMA RIDGE 14-24-34 001H	Lease Gramma Ridge 14-24-34	Field Name Red Hills North	Business Unit Mid-Continent	
Ground Elevation (ft) 3,492.00	Original RKB Elevation (ft) 3,517.00	Current RKB Elevation 3,517.00, 9/3/2014	Mud Line Elevation (ft)	Water Depth (ft)
Current KB to Ground (ft) 25.00	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)	

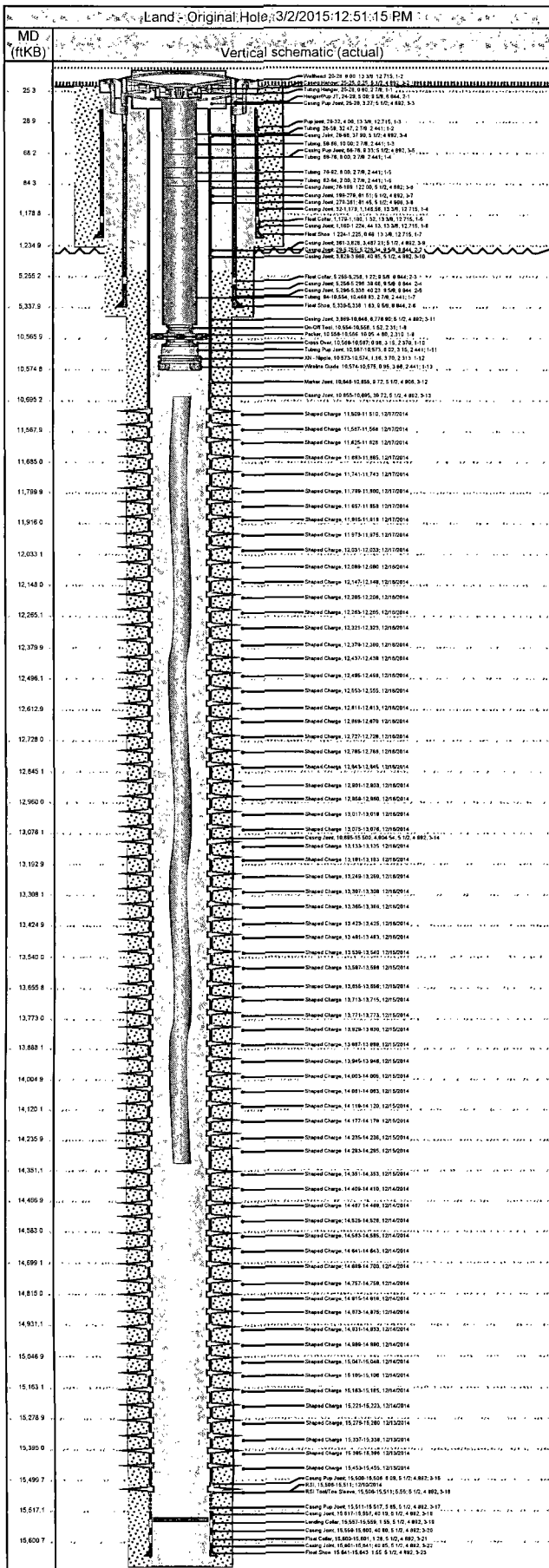
Land - Original Hole, 2/13/2015 8:30:00 PM

Tubing Strings									
Tubing Description		Planned Run?		Set Depth (MD) (ftKB)		Set Depth (TVD) (ftKB)			
Tubing - Production		N		10,574.9		10,572.6			
Run Date		Run Job		Pull Date		Pull Job			
2/13/2015		Complete, 12/5/2014 08:30							
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	Tubing Hanger	2 7/8					0.80	25.0	25.8
1	Tubing	2 7/8	2.441	6.50	L-80		32.47	25.8	58.3
1	Tubing	2 7/8	2.441	6.50	L-80		10.00	58.3	68.3
1	Tubing	2 7/8	2.441	6.50	L-80		8.00	68.3	76.3
1	Tubing	2 7/8	2.441	6.50	L-80		6.00	76.3	82.3
1	Tubing	2 7/8	2.441	6.50	L-80		2.00	82.3	84.3
323	Tubing	2 7/8	2.441	6.50	L-80		10,469.93	84.3	10,554.2
1	On-Off Tool	2.31					1.52	10,554.2	10,555.8
1	Packer	4.6	2.310				10.05	10,555.8	10,565.8
1	Cross Over	3.15	2.370				0.96	10,565.8	10,566.8
1	Tubing Pup Joint	3.15	2.441	6.50	L-80		6.02	10,566.8	10,572.8
1	XN - Nipple	3.7	2.313				1.16	10,572.8	10,574.0
1	Wireline Guide	3.66	2.441				0.95	10,574.0	10,574.9
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)		



Wellbore Schematic

Well Name GRAMMA RIDGE 14-24-34 001H	Lease Gramma Ridge 14-24-34	Field Name Red Hills North	Business Unit Mid-Continent
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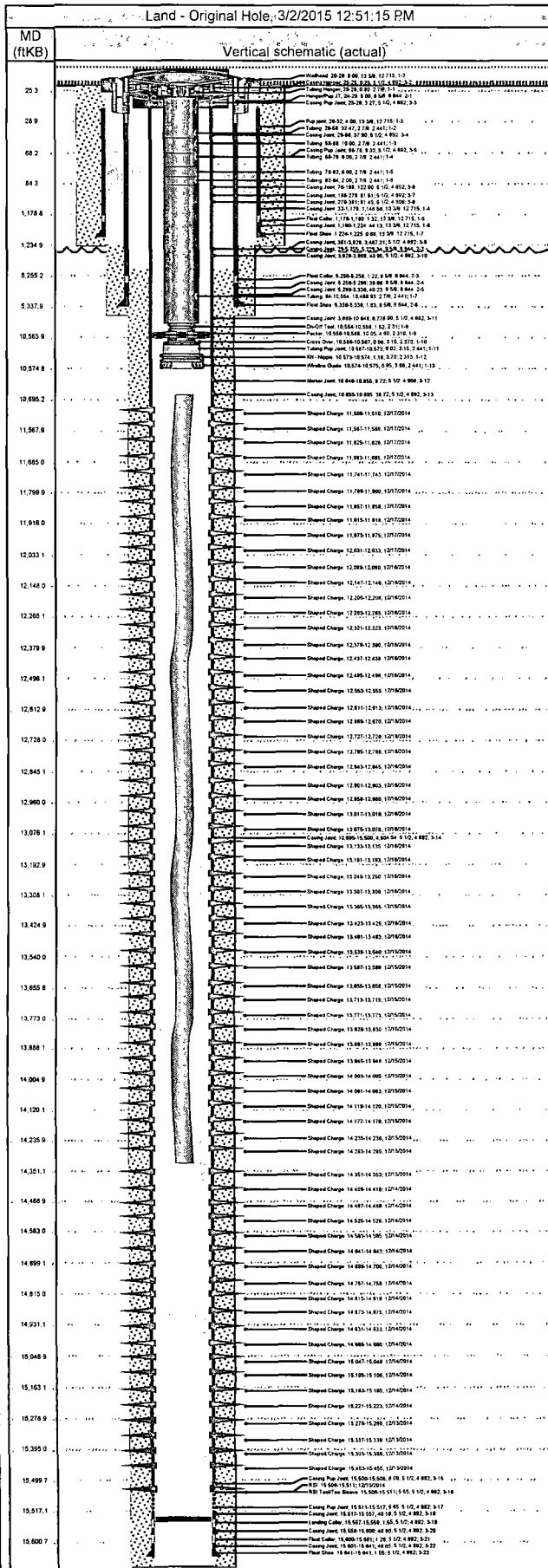


Job Details					
Job Category		Start Date		Release Date	
Completion		12/5/2014		12/10/2014	
Completion		12/10/2014		12/13/2014	
Completion		12/13/2014		12/17/2014	
Completion		12/17/2014		1/13/2015	
Completion		1/13/2015		1/26/2015	
Completion		1/26/2015		2/18/2015	
Casing Strings					
Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (MD) (ftKB)
Surface	13 3/8	48.00	H-40	ST&C	1,225
Intermediate Casing	9 5/8	40.00	HCK-55	LT&C	5,338
Production Casing	5 1/2	17.00	P-110	CDC	15,643
Tubing Strings					
Tubing - Production set at 10,574.9ftKB on 2/13/2015 20:30					
Tubing Description		Run Date		String Length (ft)	Set Depth (MD) (ftKB)
Tubing - Production		2/13/2015		10,549.86	10,574.9
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)
Tubing Hanger	1	2 7/8			0.80
Tubing	1	2 7/8	6.50	L-80	32.47
Tubing	1	2 7/8	6.50	L-80	10.00
Tubing	1	2 7/8	6.50	L-80	8.00
Tubing	1	2 7/8	6.50	L-80	6.00
Tubing	1	2 7/8	6.50	L-80	2.00
Tubing	323	2 7/8	6.50	L-80	10,469.93
On-Off Tool	1	2.31			1.52
Packer	1	4.6			10.05
Cross Over	1	3.15			0.96
Tubing Pup Joint	1	3.15	6.50	L-80	6.02
XN - Nipple	1	3.7			1.16
Wireline Guide	1	3.66			0.95
Perforations					
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Zone & Completion
12/17/2014	11,509.0	11,510.0	6.0	6	Bone Spring, Original Hole
12/17/2014	11,567.0	11,568.0	6.0	6	Bone Spring, Original Hole
12/17/2014	11,625.0	11,626.0	6.0	6	Bone Spring, Original Hole
12/17/2014	11,683.0	11,685.0	6.0	12	Bone Spring, Original Hole
12/17/2014	11,741.0	11,743.0	6.0	12	Bone Spring, Original Hole
12/17/2014	11,799.0	11,800.0	6.0	6	Bone Spring, Original Hole
12/17/2014	11,857.0	11,858.0	6.0	6	Bone Spring, Original Hole
12/17/2014	11,915.0	11,916.0	6.0	6	Bone Spring, Original Hole
12/17/2014	11,973.0	11,975.0	6.0	12	Bone Spring, Original Hole
12/17/2014	12,031.0	12,033.0	6.0	12	Bone Spring, Original Hole
12/16/2014	12,089.0	12,090.0	6.0	6	Bone Spring, Original Hole
12/16/2014	12,147.0	12,148.0	6.0	6	Bone Spring, Original Hole
12/16/2014	12,205.0	12,206.0	6.0	6	Bone Spring, Original Hole



Wellbore Schematic

Well Name GRAMMA RIDGE 14-24-34 001H	Lease Gramma Ridge 14-24-34	Field Name Red Hills North	Business Unit Mid-Continent
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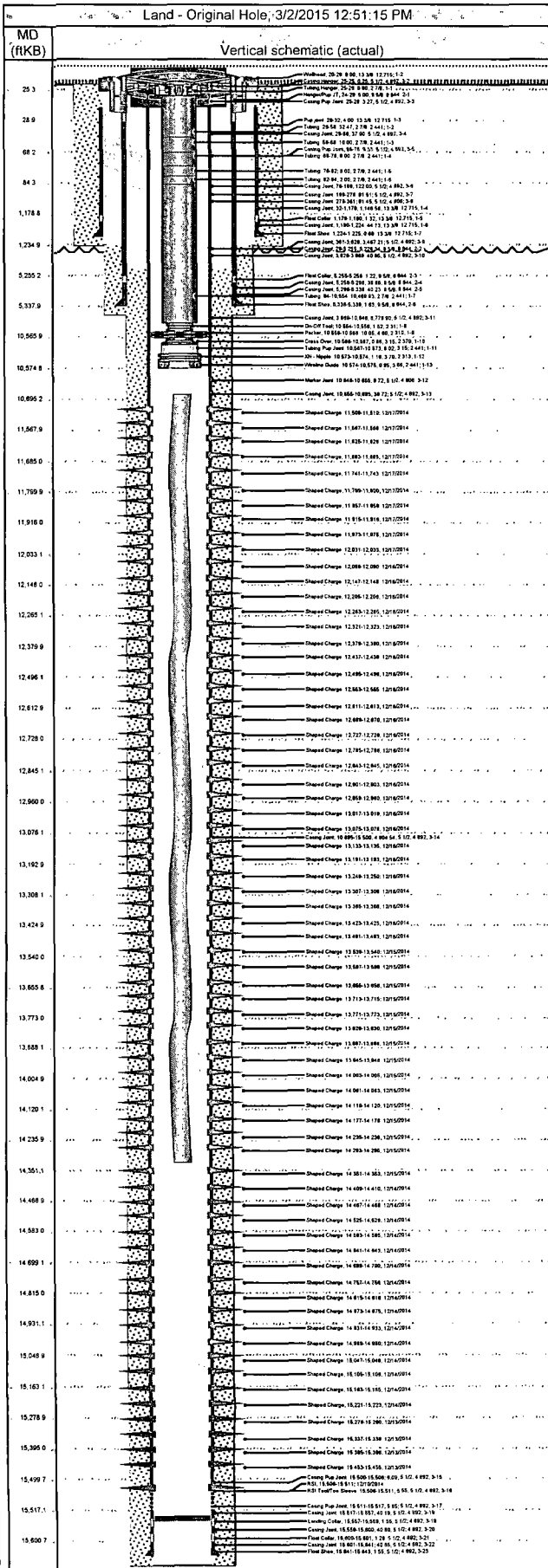


Perforations					
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Zone & Completion
12/16/2014	12,263.0	12,265.0	6.0	12	Bone Spring, Original Hole
12/16/2014	12,321.0	12,323.0	6.0	12	Bone Spring, Original Hole
12/16/2014	12,379.0	12,380.0	6.0	6	Bone Spring, Original Hole
12/16/2014	12,437.0	12,438.0	6.0	6	Bone Spring, Original Hole
12/16/2014	12,495.0	12,496.0	6.0	6	Bone Spring, Original Hole
12/16/2014	12,553.0	12,555.0	6.0	12	Bone Spring, Original Hole
12/16/2014	12,611.0	12,613.0	6.0	12	Bone Spring, Original Hole
12/16/2014	12,669.0	12,670.0	6.0	6	Bone Spring, Original Hole
12/16/2014	12,727.0	12,728.0	6.0	6	Bone Spring, Original Hole
12/16/2014	12,785.0	12,786.0	6.0	6	Bone Spring, Original Hole
12/16/2014	12,843.0	12,845.0	6.0	12	Bone Spring, Original Hole
12/16/2014	12,901.0	12,903.0	6.0	12	Bone Spring, Original Hole
12/16/2014	12,959.0	12,960.0	6.0	6	Bone Spring, Original Hole
12/16/2014	13,017.0	13,018.0	6.0	6	Bone Spring, Original Hole
12/16/2014	13,075.0	13,076.0	6.0	6	Bone Spring, Original Hole
12/16/2014	13,133.0	13,135.0	6.0	12	Bone Spring, Original Hole
12/16/2014	13,191.0	13,193.0	6.0	12	Bone Spring, Original Hole
12/16/2014	13,249.0	13,250.0	6.0	6	Bone Spring, Original Hole
12/16/2014	13,307.0	13,308.0	6.0	6	Bone Spring, Original Hole
12/16/2014	13,365.0	13,366.0	6.0	6	Bone Spring, Original Hole
12/16/2014	13,423.0	13,425.0	6.0	12	Bone Spring, Original Hole
12/16/2014	13,481.0	13,483.0	6.0	12	Bone Spring, Original Hole
12/15/2014	13,539.0	13,540.0	6.0	6	Bone Spring, Original Hole
12/15/2014	13,597.0	13,598.0	6.0	6	Bone Spring, Original Hole
12/15/2014	13,655.0	13,656.0	6.0	6	Bone Spring, Original Hole
12/15/2014	13,713.0	13,715.0	6.0	12	Bone Spring, Original Hole
12/15/2014	13,771.0	13,773.0	6.0	12	Bone Spring, Original Hole
12/15/2014	13,829.0	13,830.0	6.0	6	Bone Spring, Original Hole
12/15/2014	13,887.0	13,888.0	6.0	6	Bone Spring, Original Hole
12/15/2014	13,945.0	13,946.0	6.0	6	Bone Spring, Original Hole



Wellbore Schematic

Well Name GRAMMA RIDGE 14-24-34 001H	Lease Gramma Ridge 14-24-34	Field Name Red Hills North	Business Unit Mid-Continent
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Perforations					
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Zone & Completion
12/15/2014	14,003.0	14,005.0	6.0	12	Bone Spring, Original Hole
12/15/2014	14,061.0	14,063.0	6.0	12	Bone Spring, Original Hole
12/15/2014	14,119.0	14,120.0	6.0	6	Bone Spring, Original Hole
12/15/2014	14,177.0	14,178.0	6.0	6	Bone Spring, Original Hole
12/15/2014	14,235.0	14,236.0	6.0	6	Bone Spring, Original Hole
12/15/2014	14,293.0	14,295.0	6.0	12	Bone Spring, Original Hole
12/15/2014	14,351.0	14,353.0	6.0	12	Bone Spring, Original Hole
12/14/2014	14,409.0	14,410.0	6.0	6	Bone Spring, Original Hole
12/14/2014	14,467.0	14,468.0	6.0	6	Bone Spring, Original Hole
12/14/2014	14,525.0	14,526.0	6.0	6	Bone Spring, Original Hole
12/14/2014	14,583.0	14,585.0	6.0	12	Bone Spring, Original Hole
12/14/2014	14,641.0	14,643.0	6.0	12	Bone Spring, Original Hole
12/14/2014	14,699.0	14,700.0	6.0	6	Bone Spring, Original Hole
12/14/2014	14,757.0	14,758.0	6.0	6	Bone Spring, Original Hole
12/14/2014	14,815.0	14,816.0	6.0	6	Bone Spring, Original Hole
12/14/2014	14,873.0	14,875.0	6.0	12	Bone Spring, Original Hole
12/14/2014	14,931.0	14,933.0	6.0	12	Bone Spring, Original Hole
12/14/2014	14,989.0	14,990.0	6.0	6	Bone Spring, Original Hole
12/14/2014	15,047.0	15,048.0	6.0	6	Bone Spring, Original Hole
12/14/2014	15,105.0	15,106.0	6.0	6	Bone Spring, Original Hole
12/14/2014	15,163.0	15,165.0	6.0	12	Bone Spring, Original Hole
12/14/2014	15,221.0	15,223.0	6.0	12	Bone Spring, Original Hole
12/13/2014	15,279.0	15,280.0	6.0	6	Bone Spring, Original Hole
12/13/2014	15,337.0	15,338.0	6.0	6	Bone Spring, Original Hole
12/13/2014	15,395.0	15,396.0	6.0	6	Bone Spring, Original Hole
12/13/2014	15,453.0	15,455.0	6.0	12	Bone Spring, Original Hole
12/10/2014	15,506.0	15,511.0		2	Bone Spring, Original Hole
Other Strings					
Run Date	Pull Date	Set Depth (ftKB)	Com		
Other In Hole					
Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date	Com
Bridge Plug (retrievable)	10,515.0		1/10/2015	2/2/2015	WRP Bridge Plug

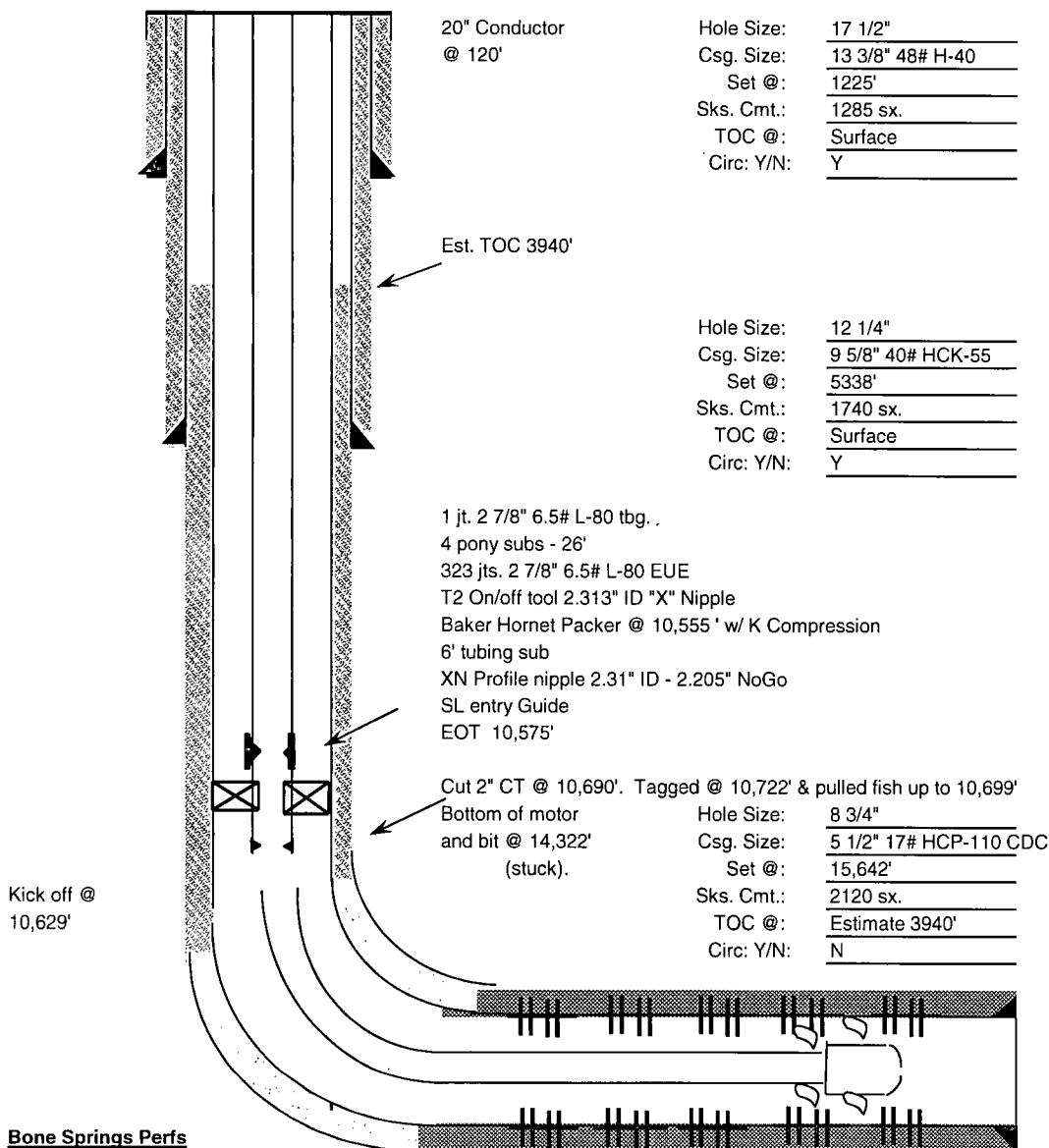


Lease Name: Gramma Ridge
 Well No. 1H
 Location: 330' FNL & 2300' FEL
 Sec.: 14
 Twn 24S
 Range 34E
 Cost Center

Field: Red Hills, North
 Reservoir: 2nd Bone Spring
 GL: 3492'
 KB: 3517'
 DF:
 Status:

API No. : 30-025-41811
 REFNO: PA0870
 Spud Date: 9/9/2014
 Comp. Date: 2/18/2015
 County: Lea
 State: New Mexico
 Type Lease: State

Horizontal Well



Bone Springs Perfs 6 spf

Stage 14 - 11,509'-11,510', 11,567'-11,568', 11,625'-11,626', 11,683'-11,685', 11,741'-11,743'.
 Stage 13 - 11,799'-11,800', 11,857'-11,858', 11,915'-11,916', 11,973'-11,975', 12,031'-12,033'.
 Stage 12 - 12,089'-12,090', 12,147'-12,148', 12,205'-12,206', 12,263'-12,265', 12,321'-12,323'.
 Stage 11 - 12,379'-12,380', 12,437'-12,438', 12,495'-12,496', 12,553'-12,555', 12,611'-12,613'.
 Stage 10 - 12,669'-12,670', 12,727'-12,728', 12,785'-12,786', 12,843'-12,845', 12,901'-12,903'.
 Stage 9 - 12,959'-12,960', 13,017'-13,018', 13,075'-13,075', 13,133'-13,135', 13,191'-13,193'.
 Stage 8 - 13,249'-13,250', 13,307'-13,308', 13,365'-13,366', 13,423'-13,425', 13,481'-13,483'.
 Stage 7 - 13,539'-13,540', 13,597'-13,598', 13,655'-13,656', 13,713'-13,715', 13,771'-13,773'.
 Stage 6 - 13,829'-13,830', 13,887'-13,888', 13,945'-13,946', 14,003'-14,005', 14,061'-14,063'.
 Stage 5 - 14,119'-14,120', 14,177'-14,178', 14,235'-14,236', 14,293'-14,295', **14,351'-14,353'**.
Stage 4 - 14,409'-14,410', 14,467'-14,468', 14,525'-14,526', 15,583'-14,585', 14,641'-14,643'.
Stage 3 - 14,699'-14,700', 14,757'-14,758', 14,815'-14,816', 14,873'-14,875', 14,931'-14,933'.
Stage 2 - 14,989'-14,990', 15,407'-15,408', 15,105'-15,106', 15,163'-15,165', 15,221'-15,223'
Stage 1 - 15,279'-15,280', 15,337'-15,338', 15,395'-15,396', 15,453'-15,455' (could not frac).

Stg. 5 Screened out

Bold Indicates interval below stuck motor

PBTD: 15,506' RSI Sleeve, FC 15,600'
 TD: 15,663' MD
 Lateral TVD 11,256'

Updated: 2/17/2015

By: mmke