

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. 30-021-20688
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Libby Minerals LLC 1931
8. Well Number 2-2-N
9. OGRID Number 370080
10. Pool name or Wildcat Bravo Dome
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4545.7' GR

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.)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other CO2

2. Name of Operator
Breithurn Operating LP

3. Address of Operator
1401 McKinney Street Houston, Texas 77010

4. Well Location

Unit Letter: N 1200 feet from the South line and 1500 feet from the West line

Section 2 Township 19N Range 31E NMPM Harding County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
4545.7' GR

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: ☐

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.

09/25/2015 MIRU. Spud well at 2:00 pm. Drill 12 1/4" surface hole to 405'.

09/26/2015 Drill 405' to 725'. Run 8 5/8", 24#, J-55 casing to 715'. Cement surface casing as follows: Lead cement 109 sx, tail cement 200 sx. Circulated 35 bbl cement to surface.

09/27/2015 N/U BOP Test casing to 700 psi for 30 minutes. Test passed. Drill 7 7/8" production hole to 1665'.

09/28/2015 Drill production hole from 1665' to TD of 2375'. Run 57 jts. 4.5", 11.60 #, J-55 LTC casing to 2,371'. Cement production casing as follows: Lead cement 150 sx 87 bbl. Tail cement 160 sx 51 bbl. Displace w/ 39 bbl fresh water. 25 bbl cement return to surface. WOC. Set slips, clean pit and release rig @ 9:00 pm. Production casing will be pressure tested prior to completion operations.

Spud Date:

09/25/2015

Rig Release Date:

09/29.2015

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

SIGNATURE

Shelly Doescher

TITLE Agent

DATE 10/05/2015

Type or print name: **Shelly Doescher** E-mail address: **shelly_doescher@yahoo.com** PHONE: **505-320-5682**
For State Use Only

APPROVED BY:

Will Jones

TITLE *Dist II Supervisor*

DATE *10/12/15*

Conditions of Approval (if any):



BREITBURN

REVIEW - Daily Drilling Summary

Well Name: LIBBY MINERALS LLC 1931 2-2-N

1.0 --Report Number

9/25/2015 --Date of Report

--24 Hr Progress

State NM		County HARDING		Project LIBBY RANCH		Region NM-LIBBY RANCH CO2		Division DIVISION 5	
API # 3002120688		Surface Legal Location N2 19NORTH 31E, NMPM		State Drilling Permit # 20688		KB Elevation (ft) 4,554.00		Gr Elev (ft) 4,546.00	
Rig Company RELIANT E&P		Rig # 1		Start Date 9/24/2015 08:00		End Date		Spud Date 9/25/2015 14:00	
						Rig Start Date 9/24/2015 8:00 AM		Rig Release Date	
AFE # AFE000433		Well Type CO2 SUPPLY		Total AFE (Cost) 316,033		Tgt Depth (ftKB) 2,600.0		Target Frm	
Daily Operations									
Operations at Report Time Waiting for Daylight								Status at Reporting Time DRILLING	
Operations Summary Rig down and move to location									
Remarks No accidents.									
Next 24 Hour Plan Move in and rig up									
Daily Field Est Total (Cost) 73,085		Cum Field Est To Date (Cost) 73,085		Start Depth (ftKB) 0		End Depth (ftKB) 0		Depth Progress (ft) 0	
								Avg ROP (ft/hr)	
Daily Contacts									
Contact Name RICK EUTSLER		Title CONSULTANT		Mobile 432-425-7919		Office		E-mail WTXDRILL42@BREITBURN.COM	
Time Log									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Phase	Operation	Unschd Typ	Com
08:00	19:00	11.00	11.00			RIG MOVE, MOVE	RIGUP & RIGDOWN		Rigging down and move rig
19:00	06:00	11.00	22.00			RIG MOVE, MOVE	WAITING ON		Waiting on Daylight
Personnel Log									
Employee Type		Employee Name		Company		Count		Reg Work Time (hr)	
Rig Crew				RELIANT E&P		5		12.00	
Rig Crew				RELIANT E&P		5		12.00	
Tool Pusher				RELIANT E&P		1		24.00	
On-Site Supervision				HARIMAU OIL & GAS CONSULTING		1		24.00	
Mud Checks									
Date	Type	Depth (ftKB)	Source	Mud Weight (lb/gal)	Vis (s/qt)	Filtrate (mL/30min)	HTHP Filtrate (mL/30min)	Mud Lost (Hole) (bbl)	Mud Lost (Surf) (bbl)
PV Override (cP)	YP Override (lb/100ft²)	pH	Gal 10 sec (lb/100ft²)	Gal 10 min (lb/100ft²)	Gal 30 min (lb/100ft²)	Vis	Vis 6rpm	Lime (lb/bbl)	
Chlorides (mg/L)	Calcium (mg/L)	CaCl (ppm)	Solids (%)	LGS (%)	Sand (%)	Percent Oil (%)	Oil Water Ratio	Electric Stab (V)	MBT (lb/bbl)
Rig Fuel									
Date	Supply Item Des	Type	Unit Label	Field Est (Cost)	Received	Consumed			
Drill Bits									
Used Class	Bit Type	Size (in)	Serial Number	Make	Model	Date In	Date Out		
Drill Strings									
BHA # <stringno>, <des>									
BHA #	Bit Run	Drill Bit	Nozzles (1/32")	TFA (incl Noz) (in²)	IADC Bit Dull				
Drill String Components									
Item Des	Jts	OD (in)	ID (in)	Len (ft)					
Drilling Parameters									
<depthstart> - <depthend> ftKB									
Start Date	End Date	Start Depth (ftKB)	End Depth (ftKB)	Int Depth (ft)	Cum Depth Drilled (ft)	Drilling Time (hr)	Cum Drill Time	Circ Time (hr)	Cum Circ Tim...
RPM (rpm)	ROP Inst (min/ft)	Interval ROP (ft/hr)	Stand Pipe Pressure (psi)	Flow Rate (gpm)	Weight on Bit (1000lbf)	Motor RPM (rpm)	dP (SPP) (psi)		
Pump Operations									
Pump #	Make	Model	Line Size (in)	Stroke (in)	P Max (psi)				
Hydraulic Data									
Pump #	Strokes (spm)	Q Flow (gpm)	P (psi)	Eff (%)	Slow Spd				



BREITBURN

REVIEW - Daily Drilling Summary

Well Name: LIBBY MINERALS LLC 1931 2-2-N

2.0 --Report Number

9/26/2015 --Date of Report

405 --24 Hr Progress

State NM		County HARDING		Project LIBBY RANCH		Region NM-LIBBY RANCH CO2		Division DIVISION 5	
API # 3002120688		Surface Legal Location N2 19NORTH 31E, NMPM		State Drilling Permit # 20688		KB Elevation (ft) 4,554.00		Gr Elev (ft) 4,546.00	
Rig Company RELIANT E&P		Rig # 1		Start Date 9/24/2015 08:00		End Date		Spud Date 9/25/2015 14:00	
						Rig Start Date 9/24/2015 8:00 AM		Rig Release Date	
AFE # AFE000433		Well Type CO2 SUPPLY		Total AFE (Cost) 316,033		Tgt Depth (ftKB) 2,600.0		Target Frm.	
Daily Operations									
Operations at Report Time Move in and rig up						Status at Reporting Time DRILLING			
Operations Summary Rigging up, Mix spud mud and perform spud inspection. Drill f/ 0 - 405.									
Remarks No accidents									
Next 24 Hour Plan Drill and set surface pipe and cement									
Daily Field Est Total (Cost) 15,155		Cum Field Est To Date (Cost) 88,240		Start Depth (ftKB) 0		End Depth (ftKB) 405		Depth Progress (ft) 405	
								Avg ROP (ft/hr) 25	
Daily Contacts									
Contact Name RICK EUTSLER		Title CONSULTANT		Mobile 432-425-7919		Office		E-mail WTXDRILL42@BREITBURN.COM	
Time Log									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Phase	Operation	Unschd Type	Com
06:00	14:00	8.00	8.00			RIG MOVE, MOVE	RIGUP & RIGDOWN		Rig up Mix spud mud and perform spud inspection.
14:00	06:00	16.00	24.00	0.0	405.0	SURFACE, DRILL	DRILL ACTUAL		Drill f/ 0 - 405' WOB 5 - 10k RPM 100 GPM 300
Personnel Log									
Employee Type		Employee Name		Company		Count		Reg Work Time (hr)	
Rig Crew				RELIANT E&P		5		12.00	
Rig Crew				RELIANT E&P		5		12.00	
Tool Pusher				RELIANT E&P		1		24.00	
On-Site Supervision				HARIMAU OIL & GAS CONSULTING		1		24.00	
Mud Checks									
Date	Type	Depth (ftKB)	Source	Mud Weight (lb/gal)	Vis (s/qt)	Filtrate (mL/30min)	HTHP Filtrate (mL)	Mud Lost (Hole) (bbl)	Mud Lost (Surf) (b)
PV Override (cP)	YP Override (lb/100ft ²)	pH	Gel 10 sec (lb/100ft ²)	Gel 10 min (lb/100ft ²)	Gel 30 min (lb/100ft ²)	Vis	Vis 6rpm	Lime (lb/bbl)	
Chlorides (mg/L)	Calcium (mg/L)	CaCl (ppm)	Solids (%)	LGS (%)	Sand (%)	Percent Oil (%)	Oil Water Ratio	Electric Slab (V)	MBT (lb/bbl)
Rig Fuel									
Date	Supply Item Des		Type	Unit Label	Field Est (Cost)	Received	Consumed		
Drill Bits									
Used Class	Bit Type	Size (in)	Serial Number	Make	Model	Date In	Date Out		
Used	TRICONE	12 1/4	1446107	VAREL	HR04JMRS	9/25/2015 14:00	9/26/2015 13:30		
Drill Strings									
BHA #1, SURFACE									
BHA #	Bit Run	Drill Bit	Nozzles (1/32")	TFA (incl Noz) (in)	IADC Bit Dull				
1	1	12 1/4in, HR04JMRS, 1446107	13/13/13	0.26	1-1-NO-A-1-0-NO-TD				
Drill String Components									
Item Des	Jts	OD (in)	ID (in)	Len (ft)					
DRILL PIPE	18	4 1/2		559.55					
XO SUB	1	5 1/2		2.64					
DRILL COLLAR	5	5 1/2		150.10					
XO SUB	1	5 1/2		1.35					
XO SUB	1	5 1/2		0.99					
TELEDRIFT	1	5 1/2		14.93					
XO SUB	1	5 1/2		1.00					
BIT SUB W/FLOAT	1	5 1/2		2.64					



BREITBURN

REVIEW - Daily Drilling Summary

Well Name: LIBBY MINERALS LLC 1931 2-2-N

3.0 --Report Number

9/27/2015 --Date of Report

320 --24 Hr Progress

State NM		County HARDING		Project LIBBY RANCH		Region NM-LIBBY RANCH CO2		Division DIVISION 5	
API # 3002120688		Surface Legal Location N2 19NORTH 31E, NMPM		State Drilling Permit # 20688		KB Elevation (ft) 4,554.00		Gr Elev (ft) 4,546.00	
Rig Company RELIANT E&P		Rig # 1		Start Date 9/24/2015 08:00		End Date		Spud Date 9/25/2015 14:00	
						Rig Start Date 9/24/2015 8:00 AM		Rig Release Date	
AFE # AFE000433		Well Type CO2 SUPPLY		Total AFE (Cost) 316,033		Tgt Depth (ftKB) 2,600.0		Target Frm TUBB	
Daily Operations									
Operations at Report Time Nipping up BOP								Status at Reporting Time DRILLING	
Operations Summary Drill f/ 405 - 725, Circulate, Trip out. Run714' of 8 5/8 24# J-55 casing . Cement w/190sx lead & 200 sx tail. WOC and nipple up									
Remarks No accidents									
Next 24 Hour Plan Finish nipple up Test casing and drill production hole									
Daily Field Est Total (Cost) 40,206		Cum Field Est To Date (Cost) 128,446		Start Depth (ftKB) 405		End Depth (ftKB) 725		Depth Progress (ft) 320	
								Avg ROP (ft/hr) 43	
Daily Contacts									
Contact Name RICK EUTSLER		Title CONSULTANT		Mobile 432-425-7919		Office		E-mail WTXDRILL42@BREITBURN.COM	
Time Log									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Phase	Operation	Unsched Typ	Com
06:00	13:30	7.50	7.50	405.0	725.0	SURFACE, DRILL	DRILL ACTUAL		Drill f/ 405 - 725 WOB 5-10k RPM 90 GPM 300
13:30	14:00	0.50	8.00	725.0	725.0	SURFACE, RUN & CMT CASING	COND MUD & CIRC		Pump sweep and circulate clean
14:00	16:00	2.00	10.00	725.0	725.0	SURFACE, RUN & CMT CASING	TRIP OUT OF HOLE		Trip out laying down pipe
16:00	18:00	2.00	12.00	725.0	725.0	SURFACE, RUN & CMT CASING	RUN CASING		Run714' of 8 5/8 24# J-55 casing
18:00	20:00	2.00	14.00	725.0	725.0	SURFACE, RUN & CMT CASING	CEMENTING		Hold pre job meeting. Rig up cementers Test line to 2000 psi Pump 10 bbl ahead cement w/ 109sx lead, 200 sx tail and displace. Circulated cement to surface. State man on location during cement operations
20:00	04:00	8.00	22.00	725.0	725.0	SURFACE, BOP	WAIT ON CEMENT		WOC and prepare BOP and Solids control
04:00	06:00	2.00	24.00	725.0	725.0	SURFACE, BOP	NU/ND BOP STACK		Nipping up BOP
Personnel Log									
Employee Type		Employee Name		Company		Count		Reg Work Time (hr)	
Rig Crew				RELIANT E&P		5		12.00	
Rig Crew				RELIANT E&P		5		12.00	
Tool Pusher				RELIANT E&P		1		24.00	
On-Site Supervision				HARIMAU OIL & GAS CONSULTING		1		24.00	
Mud Checks									
Date 9/25/2015 16:00	Type WATER BASE	Depth (ftKB) 725	Source Horizon	Mud Weight (lb/gal) 8.5	Vis (cP) 28	Filtrate (mL/30min)	HTHP Filtrate (mL/...	Mud Lost (Hole) (bbl)	Mud Lost (Surf) (b...
PV Override (cP) 2.0	YP Override (lb/100ft²) 1.0	pH 9.5	Gel 10 sec (lb/100ft²) 1.0	Gel 10 min (lb/100ft²) 1.0	Gel 30 min (lb/100ft²) 1.0	Vis 6rpm	Lime (lb/bbl)		
Chlorides (mg/L) 4,500	Calcium (mg/L)	CaCl (ppm)	Solids (%) 1.3	LGS (%)	Sand (%)	Percent Oil (%)	Oil Water Ratio 0/100	Electric Slab (V)	MBT (lb/bbl) 0.0
Rig Fuel									
Date	Supply Item Des	Type	Unit Label	Field Est (Cost)	Received	Consumed			
Drill Bits									
Used Class Used	Bit Type TRICONE	Size (in) 12 1/4	Serial Number 1446107	Make VAREL	Model HR04JMRS	Date In 9/25/2015 14:00	Date Out 9/26/2015 13:30		
Drill Strings									
BHA #1, SURFACE									
BHA # 1	Bit Run 1	Drill Bit 12 1/4in, HR04JMRS, 1446107	Nozzles (1/32") 13/13/13	TFA (incl Noz) (in³) 0.26	ADC Bit Dbl 1-1-NO-A-1-0-NO-TD				



BREITBURN

REVIEW - Daily Drilling Summary

4.0 --Report Number

9/28/2015 --Date of Report

Well Name: LIBBY MINERALS LLC 1931 2-2-N

940 --24 Hr Progress

State NM		County HARDING		Project LIBBY RANCH		Region NM-LIBBY RANCH CO2		Division DIVISION 5																																																																							
API # 3002120688		Surface Legal Location N2 19NORTH 31E, NMPM		State Drilling Permit # 20688		KB Elevation (ft) 4,554.00		Gr Elev (ft) 4,546.00																																																																							
Project LIBBY RANCH		Well Status DRILLING		Rig Company RELIANT E&P		Rig # 1		Start Date 9/24/2015 08:00																																																																							
End Date		Spud Date 9/25/2015 14:00		Rig Start Date 9/24/2015 8:00 AM		Rig Release Date																																																																									
AFE # AFE000433		Well Type CO2 SUPPLY		Total AFE (Cost) 316,033		Tgt Depth (ftKB) 2,600.0		Target Frm																																																																							
Daily Operations Operations at Report Time Drilling Status at Reporting Time DRILLING Operations Summary Nipple up BOP. P/U BHA #2 & TIH. Test casing to 700 psi f/ 30 minutes. Drill float equipment & cement. Drill f/ 725 - 1665' Remarks No accidents Next 24 Hour Plan Drill to TD @ 2350' Daily Field Est Total (Cost) 24,057 Cum Field Est To Date (Cost) 159,313 Start Depth (ftKB) 725 End Depth (ftKB) 1,665 Depth Progress (ft) 940 Avg ROP (ft/hr) 46																																																																															
Daily Contacts <table border="1"> <thead> <tr> <th>Contact Name</th> <th>Title</th> <th>Mobile</th> <th>Office</th> <th>E-mail</th> </tr> </thead> <tbody> <tr> <td>RICK EUTSLER</td> <td>CONSULTANT</td> <td>432-425-7919</td> <td></td> <td>WTXDRILL42@BREITBURN.COM</td> </tr> </tbody> </table>										Contact Name	Title	Mobile	Office	E-mail	RICK EUTSLER	CONSULTANT	432-425-7919		WTXDRILL42@BREITBURN.COM																																																												
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Start Time	End Time	Dur (hr)	Cum Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Phase	Operation	Unschd Typ	Com																																																																						
06:00	06:30	0.50	0.50	725.0	725.0	SURFACE, BOP	NUN/D BOP STACK		Nipple up annular and flow line																																																																						
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09:30	18:00	8.50	12.00	725.0	1,220.0	PRODUCTION, DRILL	DRILL ACTUAL		Drill f/ 725 - 1220' WOB 10 RPM 90 GPM 320																																																																						
18:00	06:00	12.00	24.00	1,220.0	1,665.0	PRODUCTION, DRILL	DRILL ACTUAL		Drill f/ 1220 - 1665' WOB 10 RPM 90 GPM 330 PSI 540																																																																						
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BREITBURN

REVIEW - Daily Drilling Summary

5.0 --Report Number

9/29/2015 --Date of Report

Well Name: LIBBY MINERALS LLC 1931 2-2-N

710 --24 Hr Progress

State NM		County HARDING		Project LIBBY RANCH		Region NM-LIBBY RANCH CO2		Division DIVISION 5	
API # 3002120688		Surface Legal Location N2 19NORTH 31E, NMPM		State Drilling Permit # 20688		KB Elevation (ft) 4,554.00		Gr Elev (ft) 4,546.00	
Rig Company RELIANT E&P		Rig # 1		Start Date 9/24/2015 08:00		End Date		Spud Date 9/25/2015 14:00	
						Rig Start Date 9/24/2015 8:00 AM		Rig Release Date	
AFE # AFE000433		Well Type CO2 SUPPLY		Total AFE (Cost) 316,033		Tgt Depth (ftKB) 2,600.0		TUBB	
Daily Operations									
Operations at Report Time Tripping out @ TD 2375' for Logs								Status at Reporting Time DRILLING	
Operations Summary Drill f/ 1665 - 1942' Wiper trip to shoe after displacing mud. Drill f/ 1942 - 2375' TD. Pump sweep and trip out for logs									
Remarks No accidents									
Next 24 Hour Plan Log well, Run 4.5 casing and cement. Nipple down clean pits and release rig.									
Daily Field Est Total (Cost) 31,660		Cum Field Est To Date (Cost) 190,973		Start Depth (ftKB) 1,665		End Depth (ftKB) 2,375		Depth Progress (ft) 710	
Avg ROP (ft/hr) 43									
Daily Contacts									
Contact Name RICK EUTSLER		Title CONSULTANT		Mobile 432-425-7919		Office		E-mail WTXDRILL42@BREITBURN.COM	
Time Log									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Start Depth (ftKB)	End Depth (ftKB)	Phase	Operation	Unschd Typ	Com
06:00	12:30	6.50	6.50	1,665.0	1,942.0	PRODUCTION, DRILL	DRILL ACTUAL		Drill f/ 1665 - 1942' WOB 10 RPM 90 GPM 300. Displace mud system while drilling
12:30	16:30	4.00	10.50	1,942.0	1,942.0	PRODUCTION, DRILL	TRIP OUT OF HOLE		Wiper trip to shoe & back to bottom. No tight hole.
16:30	02:30	10.00	20.50	1,942.0	2,375.0	PRODUCTION, DRILL	DRILL ACTUAL		Drill f/ 1942 - 2375' WOB 10 -14k RPM 90 GPM 300
02:30	03:30	1.00	21.50	2,375.0	2,375.0	PRODUCTION, DRILL	COND MUD & CIRC		Pump sweep and circulate for logs
03:30	06:00	2.50	24.00	2,375.0	2,375.0	PRODUCTION, DRILL	TRIP OUT OF HOLE		Trip out for logs
Personnel Log									
Employee Type	Employee Name	Company	Count	Rag Work Time (hr)	Tot Work Time (hr)				
Rig Crew		RELIANT E&P	5	12.00	60.00				
Rig Crew		RELIANT E&P	5	12.00	60.00				
Tool Pusher		RELIANT E&P	1	24.00	24.00				
On-Site Supervision		HARIMAU OIL & GAS CONSULTING	1	24.00	24.00				
Mud Checks									
Date	Type	Depth (ftKB)	Source	Mud Weight (lb/gal)	Vls (s/qt)	Filtrate (mL/30min)	HTHP Filtrate (mL/...	Mud Lost (Hole) (bbl)	Mud Lost (Surf) (b...
9/28/2015 18:00	WATER BASE	2,169	Horizon	8.8	41				
PV Override (cP)	YP Override (lb/100ft ²)	pH	Get 10 sec (lb/100ft ²)	Get 10 min (lb/100ft ²)	Get 30 min (lb/100ft ²)	Vls	Vls 6rpm	Lime (lb/bbl)	
11.0	10.0	8.3	3.0	6.0	41	4			
Chlorides (mg/L)	Calcium (mg/L)	CaCl (ppm)	Solids (%)	LGS (%)	Sand (%)	Percent Oil (%)	Oil Water Ratio	Electric Stab (V)	MBT (lb/bbl)
1,500			4.5	5.4	0.0		0/100		15.0
Rig Fuel									
Date	Supply Item Des	Type	Unit Label	Field Est (Cost)	Received	Consumed			
Drill Bits									
Used Class	Bit Type	Size (in)	Serial Number	Make	Model	Date In	Date Out		
New	PDC	7 7/8		VAREL	VTD616P	9/27/2015 09:30	9/29/2015 02:30		
Drill Strings									
BHA #2, PRODUCTION									
BHA #	Bit Run	Drill Bit	Nozzles (1/32")	TFA (incl Noz) (in ³)	IADC Bit Dull				
21		7 7/8in, VTD616P, <sn>	13/13/13/15/15	0.91					
Drill String Components									
Item Des	Jts	OD (in)	ID (in)	Len (ft)					
DRILL PIPE	74	4 1/2		2,199.70					
XO SUB		4 1/2		2.25					
DRILL COLLAR		5 1/2		150.10					
XO SUB		5 1/2		0.99					
TELEDRIFT		5 1/2		14.93					
XO SUB		5 1/2		1.00					



BREITBURN

REVIEW - Daily Drilling Summary

6.0 --Report Number

9/29/2015 --Date of Report

0 --24 Hr Progress

Well Name: LIBBY MINERALS LLC 1931 2-2-N

State NM		County HARDING		Project LIBBY RANCH		Region NM-LIBBY RANCH CO2		Division DIVISION 5	
API # 3002120688		Surface Legal Location N2 19NORTH 31E. NMPM		State Drilling Permit # 20688		KB Elevation (ft) 4,554.00		Gr Elev (ft) 4,546.00	
Rig Company RELIANT E&P		Rig # 1		Start Date 9/24/2015 08:00		End Date 9/29/2015 21:00		Spud Date 9/25/2015 14:00	
						Rig Start Date 9/24/2015 8:00 AM		Rig Release Date 9/29/2015 21:00	
AFE # AFE000433		Well Type CO2 SUPPLY		Total AFE (Cost) 316,033		Tgt Depth (ft) 2,600.0		Target Firm TUBB	
Daily Operations									
Operations at Report Time Preparing to move rigging down								Status at Reporting Time DRILLING	
Operations Summary Trip out laying down pipe. Rig up and log well. Nipple down and install well head. Run 57 jt's 4.5 11.6 J-55 LTC to 2371' production casing. Circulate on bottom while rigging up cementers. Cement 4.5 casing. Clean pits. RIG RELEASE 9/29/15 21:00									
Remarks No accidents.									
Next 24 Hour Plan Rig move and rig up.									
Daily Field Est Total (Cost) 63,481		Cum Field Est To Date (Cost) 254,454		Start Depth (ft) 2,375		End Depth (ft) 2,375		Depth Progress (ft) 0	
Daily Contacts									
Contact Name RICK EUTSLER		Title CONSULTANT		Mobile 432-425-7919		Office		E-mail WTXDRILL42@BREITBURN.COM	
Time Log									
Start Time	End Time	Dur (hr)	Cum Dur (hr)	Start Depth (ft)	End Depth (ft)	Phase	Operation	Unschd Typ	Com
06:00	08:30	2.50	2.50	2,375.0	2,375.0	LOGGING, RUN LOGS	TRIP OUT OF HOLE		Trip out for logs
08:30	12:30	4.00	6.50	2,375.0	2,375.0	LOGGING, RUN LOGS	LOGS		Run Weatherford triple combo
12:30	13:30	1.00	7.50	2,375.0	2,375.0	PRODUCTION, RUN & CMT CASING	NU/ND BOP STACK		Nipple down and install wellhead
13:30	17:30	4.00	11.50	2,375.0	2,375.0	PRODUCTION, RUN & CMT CASING	RUN CASING		Run 57 jt's 4.5 11.6 J-55 LTC to 2371'
17:30	19:00	1.50	13.00	2,375.0	2,375.0	PRODUCTION, RUN & CMT CASING	CEMENTING		Cement casing w/ 150 sx 87 bbl of lead, 160 sx 51 bbl of tail Displace w/ Fresh water 39 bbl Floats holding 25 bbl return to surface.
19:00	21:00	2.00	15.00	2,375.0	2,375.0	PRODUCTION, R/D - R/R	WAIT ON CEMENT		WOC Set slips clean pits and release rig @ 21:00 hr's
Personnel Log									
Employee Type		Employee Name		Company		Count		Reg Work Time (hr)	
Rig Crew				RELIANT E&P		5		12.00	
Rig Crew				RELIANT E&P		5		12.00	
Tool Pusher				RELIANT E&P		1		24.00	
On-Site Supervision				HARIMAU OIL & GAS CONSULTING		1		24.00	
Mud Checks									
Date	Type	Depth (ft)	Source	Mud Weight (lb/gal)	Vis (s/qt)	Filtrate (mL/30min)	HTHP Filtrate (mL/...	Mud Lost (Hole) (bbl)	Mud Lost (Surf) (b...
PV Override (cP)	YP Override (lb/100ft ²)	pH	Gel 10 sec (lb/100ft ²)	Gel 10 min (lb/100ft ²)	Gel 30 min (lb/100ft ²)	Vis	Vis 6rpm	Lime (lb/bbl)	
Chlorides (mg/L)	Calcium (mg/L)	CaCl (ppm)	Solids (%)	LGS (%)	Sand (%)	Percent Oil (%)	Oil Water Ratio	Electric Stab (V)	MBT (lb/bbl)
Rig Fuel									
Date	Supply Item Des	Type	Unit Label	Field Est (Cost)	Received	Consumed			
Drill Bits									
Used Class	Bit Type	Size (in)	Serial Number	Make	Model	Date In	Date Out		
Drill Strings									
BHA #<stringno> <des>									
BHA #	Bit Run	Drill Bit	Nozzles (1/32")	TFA (incl Noz) (in)	IADC Bit Dtl				
Drill String Components									
Item Des	Jts	OD (in)	ID (in)	Len (ft)					