



Onshore Completion Report

Well Name: MUIRHEAD 01-01

Report # 3, Report Date: 10/1/2014

API 05-123-10545		Prospect		Regulatory Field WATTENBERG		State/Province COLORADO		Country USA	
Quarter 1	Quarter 2 NE	Quarter 3 SW	Quarter 4 SW	Section 1	Township 4 N	Township N/S Dir N	Range 65	Range E/W Dir W	
Well Configuration Type VERTICAL		Original KB Elevation (ft) 4,738.00		KB - GL / MSL (ftKB) 10.00		KB-Casing Flange Distance (ft) 10.00		KB-Tubing Head Distance (ft)	
Directions To Well WCR 47 AND WCR 50. S 7/10, SE THROUGH THE TANK BATTERY 2/10, NE 1/10 INTO LOCATION.					Comment CSG LEAK BETWEEN 4930' - 4961' DURING ORIGINAL DRILL & COMPLETE JOB. TRIED SQUEEZING LEAK, BUT OVERDISPLACED AND CIRCULATED TO SURFACE ON FIRST TWO ATTEMPTS. THIRD ATTEMPT HELD 1800# WITH 90 SX "G" EST. TO GO INTO ANNULUS				
Total Depth (All) (ftKB) ORIGINAL HOLE - 7,634.0					Current PBTD (ftKB) ORIGINAL HOLE - 7,130.0				

Original PBTD			
Date 9/24/2014	Depth (ftKB) 7,130.0	Type FILL	Measurement Method TAG

Casing Strings				
Csg Des	OD (in)	Grade	Wt/Len (lb/ft)	MD (ftKB)
Production	4 1/2	K-55	11.60	7,634.0

Cement Tops	
Des	Top (ftKB)
SURFACE CASING CEMENT	10.0
PRODUCTION CASING CEMENT	6,510.0
CASING REPAIR CEMENT	4,044.0
Dump Bail	6,956.0
Cement Plug	4,044.0
CEMENT PLUG	2,390.0
CEMENT PLUG	2,416.0
Cement Plug	10.0

Additional Downhole Equipment				
Des	OD (in)	Top (ftKB)	Btm (ftKB)	Run Date
Cement Retainer	3 7/8	2,400.0	2,402.0	10/2/2014 14:00

Logs				
Type	Date	Top, MD (ftKB)	Btm, MD (ftKB)	Logging Company
COMPENSATED DENSITY	2/28/1982	4,000.0	7,626.0	DRESSER ATLAS
INDUCTION	2/28/1982	325.0	7,630.0	DRESSER ATLAS
SPECTRALOG	3/11/1982	4,200.0	7,578.0	DRESSER ATLAS
CEMENT BOND	3/12/1982	4,200.0	7,577.0	WELL TECH
GAMMA RAY	2/21/2002	6,800.0	7,096.0	ASAP PERFORATORS
GYRO	3/11/2011	10.0	6,950.0	LIGHTNING WIRELINE
CBL/CCL/GR	9/26/2014	10.0	6,950.0	NABORS COMPLETION & PRODUCTION SERVICES

Daily Activity				
Job Category ABANDON	Primary Job Type ABANDON WELL			
Rig Name BAYOU WELL SERVICE	Rig Operator AURELIO ESPINO	Rig Number 19	Rig Start Date 9/29/2014	Rig Release Date 10/6/2014

Chemicals on Location						
Supply Item Des	Received	Consumed	Returned	Cum On Location	Unit Label	Note
WATER - COMPLETIO N/RECOMP	0.0	30.0	0.0	230.0		

Field Cost Summary by Task		
Task	Field Est (Cost)	
970.10	[REDACTED]	
Report Start Date 10/1/2014	Report End Date 10/1/2014	Operations Summary HELD SAFETY MEETING. IWP CSG TBG AND SURFACE HAD 0 PSI. T.I.H. AND PU 221 JTS OF TBG TO TAG CEMENT THAT WAS DUMPED AT 5000', DIDN'T TAG ANYTHING UNTIL WE GOT DOWN TO THE PLUG AT 6970' W/KB. LAY DOWN 63 JTS INCLUDING THE 1 EXTRA JT WE PICKED UP TO TAG WITH. T.O.O.H. WITH 158 JTS IN DERRICK ABOUT 5000' OF TBG. RU NABORS WIRELINE TO DUMP BAIL 2SXS OF CEMENT. RD NABORS WIRELINE AND T.I.H. WITH 158 JTS OF 2 3/8 J-55 4.7 LB TBG. SEAT NIPPLE AND NOTCHED COLLAR PUTTING EOT AT 5013' W/KB. LOAD HOLE WITH ABOUT 20 BBLs OF WATER. ROLL HOLE UNTIL BAKER HUGHES GETS HERE. SPOT IN BAKER HUGHES TRUCKS AND SHUT DOWN DUE TO WEATHER. SHUT WELL IN CLOSE BOPS CLEAN UP LOCATION. SHUT DOWN FOR THE NIGHT.

Operations Next Report Period				
PUMP BALANCED PLUG. SHOOT HOLES AT 2500' SET CEMENT RETAINER AT 2400' PUMP 100 SXS CEMENT UN LAND CASING. CUT CASING.				
Surface Casing Pressure (psi)	Tubing Pressure (psi)	Casing Pressure (psi)	Rig Time (hr)	
0	0.0	0.0	10.00	
AFE Number	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost)	Total Job Cum Cost (Cost)	
			[REDACTED]	
Job Contact	Title		Mobile	
TYSON HAMACHER	COMPLETION FOREMAN		970-290-3878	

Daily Costs						
Task	Line	Int/Tan	Cost Des	Field Est (Cost)	Vendor	Note
970.10	0050	Intangible	Completion Unit	[REDACTED]	BAYOU WELL SERVICE	
970.10	0025	Intangible	Company Labor & Expense	[REDACTED]	NOBLE ENERGY INC	
970.10	0052	Intangible	Wireline Services	[REDACTED]	NABORS COMPLETION & PRODUCTION SERVICES	
970.10	0015	Intangible	Completion Fluids	[REDACTED]	BASIC ENERGY SERVICES INC.	

Field Cost Summary by Description	
Cost Des	Field Est (Cost)
Cement & Cement Svcs	[REDACTED]
Christmas Tree	[REDACTED]
Company Labor & Expense	[REDACTED]
Completion Fluids	[REDACTED]
Completion Unit	[REDACTED]
Contract Labor & Exp	[REDACTED]



Onshore Completion Report

Well Name: MUIRHEAD 01-01

Report # 4, Report Date: 10/2/2014

API 05-123-10545		Prospect		Regulatory Field WATTENBERG		State/Province COLORADO		Country USA	
Quarter 1	Quarter 2 NE	Quarter 3 SW	Quarter 4 SW	Section 1	Township 4	Township N/S Dir N	Range 65	Range E/W Dir W	
Well Configuration Type VERTICAL		Original KB Elevation (ft) 4,738.00		KB - GL / MSL (ftKB) 10.00		KB-Casing Flange Distance (ft) 10.00		KB-Tubing Head Distance (ft)	

Directions To Well WCR 47 AND WCR 50. S 7/10, SE THROUGH THE TANK BATTERY 2/10, NE 1/10 INTO LOCATION.				Comment CSG LEAK BETWEEN 4930' - 4961' DURING ORIGINAL DRILL & COMPLETE JOB. TRIED SQUEEZING LEAK, BUT OVERDISPLACED AND CIRCULATED TO SURFACE ON FIRST TWO ATTEMPTS. THIRD ATTEMPT HELD 1800# WITH 90 SX "G" EST. TO GO INTO ANNULUS					
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Original PBTD			
Date 9/24/2014	Depth (ftKB) 7,130.0	Type FILL	Measurement Method TAG

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Production	4 1/2	K-55	11.60	7,634.0

Cement Tops	
Des	Top (ftKB)
SURFACE CASING CEMENT	10.0
PRODUCTION CASING CEMENT	6,510.0
CASING REPAIR CEMENT	4,044.0
Dump Bail	6,956.0
Cement Plug	4,044.0
CEMENT PLUG	2,390.0
CEMENT PLUG	2,416.0
Cement Plug	10.0

Additional Downhole Equipment				
Des	OD (in)	Top (ftKB)	Btm (ftKB)	Run Date
Cement Retainer	3 7/8	2,400.0	2,402.0	10/2/2014 14:00

Perforations							
Zone Name CODELL	Bnch/Stg	Top Depth (ftKB) 2,500.00	Bottom Depth (ftKB) 2,501.00	Entered Shot T... 4	Est Hole Dia (in)	Date 10/2/2014	Comment SHOT 4 HOLES FOR SQUEEZE

Logs					
Type	Date	Top, MD (ftKB)	Btm, MD (ftKB)	Logging Company	
COMPENSATED DENSITY	2/28/1982	4,000.0	7,626.0	DRESSER ATLAS	
INDUCTION	2/28/1982	325.0	7,630.0	DRESSER ATLAS	
SPECTRALOG	3/11/1982	4,200.0	7,578.0	DRESSER ATLAS	
CEMENT BOND	3/12/1982	4,200.0	7,577.0	WELL TECH	
GAMMA RAY	2/21/2002	6,800.0	7,096.0	ASAP PERFORATORS	
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Daily Activity					
Job Category ABANDON		Primary Job Type ABANDON WELL			
Rig Name BAYOU WELL SERVICE		Rig Operator AURELIO ESPINO		Rig Number 19	Rig Start Date 9/29/2014
				Rig Release Date 10/6/2014	

Chemicals on Location							
Supply Item Des	Received	Consumed	Returned	Cum On Location	Unit Label	Note	
WATER - COMPLETIO N/RECOMP	0.0	15.0	100.0	115.0			

Field Cost Summary by Task	
Task	Field Est (Cost)
970.10	

Report Start Date 10/2/2014	Report End Date 10/2/2014	Operations Summary HELD SAFETY MEETING. IWP TBG CSG AND SUR ALL HAD 0 PSI ON THEM. FIRST THING IN THE MORNING HAD TO GET TRUCK FROM NPT SPOTTED IN ON LOCATION WHICH TOOK A LITTLE BIT LONGER DUE TO THE RAIN HE HAD TO CHAIN UP. THEN ONCE SPOTTED WE GOT BAKER HUGHES HOOKED UP TO THE WELL TO PRESSURE TEST LINES AND START MIXING CEMENT. SHUT DOWN HAD SAFETY MEETING WITH EVERYONE ON LOCATION. BAKER COULDN'T GET THE COMPUTER SYSTEM TO WORK CORRECTLY ON THE PUMP TRUCK TOOK ABOUT 2 HRS TO FIGURE OUT ISSUE. ONCE RESOLVED PRESSURE TESTED LINES TO 4000 PSI. BATCHED UP 75 SXS OF 15.8 "G NEAT" CEMENT. PUMPED A BALANCED PLUG FORM 5013'- 4044' W/KB. PUMP 14 BBLS DISPLACEMENT TO GET BALANCED. BREAK OFF BAKER HUGHES. WELL IS NOT ON A VACUUM OR BLOWING. LAY DOWN 82 JTS ON FLOAT. STAND BACK 38 STANDS. R/U NABORS WIRELINE TO SHOOT HOLES IN CSG AT 2500' 4 PERF HOLES. SHOOT HOLES RD NABORS WIRELINE. PU (STS) CAST IRON CEMENT RETAINER T.I.H. WITH 38 STANDS SETTING RETAINER AT 2400' W/KB. ONCE WE KNOW RETAINER IS SET. HOOK BAKER HUGHES BACK UP TO THE TBG. CHAIN THE TBG DOWN. PUMP 90 SXS OF CEMENT DOWN THE TBG, ABOUT 25 BBLS TOTAL FOR THE DISPLACEMENT OF THE WATER THAT WAS IN THE TBG ALREADY, THEN STING OUT OF THE RETAINER AND PUMP 2 BBLS ON TOP OF THE RETAINER 10 SXS. RD BAKER HUGHES. LET THEM WASH UP TO TANK. LAY DOWN 58 JTS LEAVING 9 STANDS IN THE DERRICK. SHUT BOPS. CLEAN UP LOCATION. SHUT DOWN FOR THE NIGHT.
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Operations Next Report Period ND BOPS. UN LAND CSG. COLLAR BUSTER AT 624. LAY DOWN CSG. PUMP 500 SXS CEMENT TO SURFACE.			
Surface Casing Pressure (psi) 0	Tubing Pressure (psi) 0.0	Casing Pressure (psi) 0.0	Rig Time (hr) 0.00
AFE Number	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost)	Total Job Cum Cost (Cost)
Job Contact TYSON HAMACHER	Title COMPLETION FOREMAN	Mobile 970-290-3878	

Daily Costs						
Task	Line	Int/Tan	Cost Des	Field Est (Cost)	Vendor	Note
970.10	0050	Intangible	Completion Unit		BAYOU WELL SERVICE	
970.10	0025	Intangible	Company Labor & Expense		NOBLE ENERGY INC	