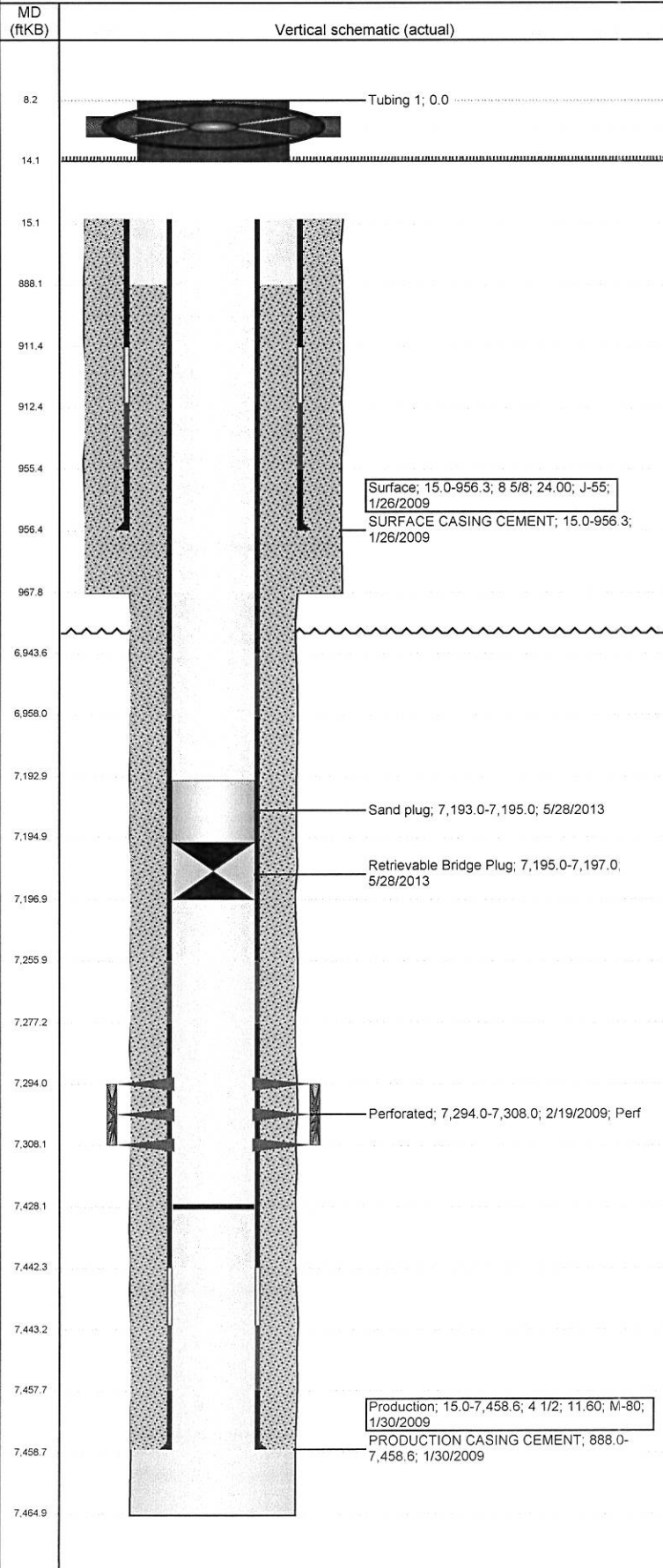


Well Name: PALMER X20-06

VERTICAL - ORIGINAL HOLE, 7/18/2016 10:27:10 AM



Well Header			
API	05-123-29612	Business Unit	DJ BASIN
Original KB Elevation (ft)	4,942	KB - GL / MSL (ftKB)	14.00
Spud Date	1/25/2009	District	15
Well Config	VERTICAL		
Comment	Directions To Well WCR 39 & 20, EAST .3, SOUTH .4, EAST INTO		
Congressional Location			
Quarter 1	Quarter 2	Quarter 3	Quarter 4
		SE	NW
Section	Township		Twnshp N...
20	2		N
Range	Rng E/W Dir		
65	W		
Bottom Hole Location			
North-South Distance (ft)	From N or S Line	East-West Distance (ft)	From E or W Line
Plug Back Total Depths			
Date	Depth (ftKB)	Method	Com
1/30/2009	7,443.0	CASING TALLY	
2/6/2009	7,428.0	CASED HOLE LOG	
Wellbore Sections			
Section Des	Size (in)	Act Top, MD (ftKB)	Act Btm, MD (ftKB)
SURFACE	12 1/4	15	968
PRODUCTION	7 7/8	968	7,465
Zone Statuses			
Zone Name	Status Date	Status	Fluid Type
CODELL	3/6/2009	PR	
Job	Prod Method		
DRILLING/CO...			
Casing Strings			
Surface, 956.3ftKB			
Casing Description	Run Date	OD (in)	W/Len (l...)
Surface	1/26/2009	8 5/8	24.00
Grade	Top, MD (ft...)	MD (ftKB)	
J-55	15.0	956.3	
Production, 7,458.6ftKB			
Casing Description	Run Date	OD (in)	W/Len (l...)
Production	1/30/2009	4 1/2	11.60
Grade	Top, MD (ft...)	MD (ftKB)	
M-80	15.0	7,458.6	
Cement			
Description	Top Depth (ftKB)	Bottom Depth (ftKB)	
SURFACE CASING CEMENT	15.0	956.3	
Description	Top Depth (ftKB)	Bottom Depth (ftKB)	
PRODUCTION CASING CEMENT	888.0	7,458.6	
Tubing Strings			
Tubing Description	Run Date	String...	ID (in)
Tubing - Production	2/19/2009		1.995
Wt (lb/ft)	Grade	Len (ft)	Set De...
4.70	J-55	7.65	7,273.7
Perforation Data			
Zone	Bnch/St g	Entered Shot Total	Top (ftKB)
CODELL, ORIGINAL HOLE		56	7,294.00
			Btm (ftKB)
			7,308.00
			Date
			2/19/2009
Stimulations & Treatments			
Date	Zone	Primary Job Type	
3/3/2009	CODELL, ORIGINAL HOLE	DRILLING/COMPLETION - ORIGINAL	
Technical Result	Tech Result Details		Tech Result Note
Success	According to Plan		
Comment	(CODELL ND DS): HAD PROBLEMS WITH GAS PERM 1000 DURING PAD. HAD TO SURGE THE LOADING A COUPLE OF TIMES TO GET IT TO LINE OUT. NO OTHER ISSUES TO REPORT.		
Other In Hole			
Run Date	Des	OD (in)	Top (ftKB)
5/28/2013	Retrievable Bridge Plug	3.99	7,195.0
5/28/2013	Sand plug	3.99	7,193.0
			Btm (ftKB)
			7,197.0
Logs			
Date	Type	Top, MD (ftKB)	Btm, MD (ftKB)
1/30/2009	Caliper/Comp. Density/Neutron/GR/SP/ML	3,100.0	5,529.0
1/30/2009	DIL/GR/SP/Caliper	956.0	5,529.0
2/6/2009	PULSED NEUTRON	900.0	7,400.0
2/6/2009	CBL/CCL/GR	0.0	7,423.0
1/9/2013	GYRO	14.0	7,250.0



Onshore Completion Report

Well Name: PALMER X20-06

Report # 1, Report Date: 5/23/2013

API 05-123-29612		Prospect		Regulatory Field WATTENBERG		State/Province COLORADO		Country USA	
Quarter 1	Quarter 2	Quarter 3 SE	Quarter 4 NW	Section 20	Township 2	Township N/S Dir N		Range 65	Range E/W Dir W
Well Configuration Type VERTICAL		Original KB Elevation (ft) 4,942		KB - GL / MSL (ftKB) 14.00		KB-Casing Flange Distance (ft) 14.00		KB-Tubing Head Distance (ft) 11.00	

Directions To Well WCR 39 & 20, EAST .3, SOUTH .4, EAST INTO		Comment	
TD (TVD) (ftKB) ORIGINAL HOLE - 7,465.0		Current PBTD (ftKB) ORIGINAL HOLE - 7,428.0	

Original PBTD			
Date 2/6/2009	Depth (ftKB) 7,428.0	Type FILL	Measurement Method CASED HOLE LOG

Casing Strings				
Csg Des	OD (in)	Grade	Wt/Len (lb/ft)	MD (ftKB)
Production	4 1/2	M-80	11.60	7,458.6

Cement Tops	
Des	Top (ftKB)
SURFACE CASING CEMENT	15.0
PRODUCTION CASING CEMENT	888.0

Additional Downhole Equipment				
Des	OD (in)	Top (ftKB)	Btm (ftKB)	Run Date
Retrievable Bridge Plug	3.99	7,195.0	7,197.0	5/28/2013 12:00
Sand plug	3.99	7,193.0	7,195.0	5/28/2013 13:00

Logs				
Type	Date	Top, MD (ftKB)	Btm, MD (ftKB)	Logging Company
Caliper/Comp. Density/Neutron/GR/SP/ML	1/30/2009	3,100.0	5,529.0	PHOENIX SURVEYS INC
DIL/GR/SP/Caliper	1/30/2009	956.0	5,529.0	PHOENIX SURVEYS INC
PULSED NEUTRON	2/6/2009	900.0	7,400.0	J-W WIRELINE COMPANY
CBL/CCL/GR	2/6/2009	0.0	7,423.0	J-W WIRELINE COMPANY
GYRO	1/9/2013	14.0	7,250.0	VAUGHN ENERGY SERVICES LLC

Daily Activity				
Job Category OTHER		Primary Job Type HORIZONTAL WELL PREP		
Rig Name KEY	Rig Operator	Rig Number 100	Rig Start Date 5/23/2013	Rig Release Date

Field Cost Summary by Task		
Task	Field Est (Cost)	
02.3	34,128.00	
Report Start Date 5/23/2013	Report End Date 5/23/2013	Operations Summary MIRU. STRIP OFF LUBRICATOR PUMP 30 BBLS DOWN CSG. TRY TO PUMP DOWN TBG WONT GO. RIG UP LUBRICATOR TO CATCH PLUNGER. NO PLUNGERCIRC WELL GOING DOWN CSG WAIT ON SUPERIOR. RIG UP WIRELINE TIH STACK OUT AT 3815. SHOOT HOLE AT 3808 AND RIG DOWN SUPERIOR. POOH WITH 2 3/8 4.7# EUE TBG. TOTAL 238 JTS. SECURE AND SHUT WELL IN. BILL TO APC PAD BYDALEK 35-20 HZ AFE: 140360

Operations Next Report Period SCRAPER RUN AND SET PLUG			
Surface Casing Pressure (psi)	Tubing Pressure (psi) 150.0	Casing Pressure (psi) 150.0	Rig Time (hr) 11.50
AFE Number 140360	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) 4,625	Total Job Cum Cost (Cost) 4,625

Daily Costs						
Task	Line	Int/Tan	Cost Des	Field Est (Cost)	Vendor	Note
02.3	0050	Intangible	Completion Unit	4,250.00		
02.3	0025	Intangible	Company Labor & Expense	375.00		

Field Cost Summary by Description	
Cost Des	Field Est (Cost)
Company Labor & Expense	1,950.00
Completion Unit	20,700.00
Location-SitePrep/Maint	398.00
Rental-Other Misc	4,500.00
Rent-Trash Trailer, etc	130.00
Rent-Wellhead & Packer	3,650.00
Trucking Eqmt/Material	1,000.00
Wireline Services	1,800.00



Onshore Completion Report

Well Name: PALMER X20-06

Report # 2, Report Date: 5/24/2013

API 05-123-29612		Prospect WATTENBERG		Regulatory Field WATTENBERG		State/Province COLORADO		Country USA		
Quarter 1	Quarter 2	Quarter 3 SE	Quarter 4 NW	Section 20	Township 2	Township N/S Dir N		Range 65	Range E/W Dir W	
Well Configuration Type VERTICAL		Original KB Elevation (ft) 4,942		KB - GL / MSL (ftKB) 14.00		KB-Casing Flange Distance (ft) 14.00		KB-Tubing Head Distance (ft) 11.00		
Directions To Well WCR 39 & 20, EAST .3, SOUTH .4, EAST INTO					Comment					
TD (TVD) (ftKB) ORIGINAL HOLE - 7,465.0					Current PBTD (ftKB) ORIGINAL HOLE - 7,428.0					
Original PBTD										
Date 2/6/2009		Depth (ftKB) 7,428.0		Type FILL			Measurement Method CASED HOLE LOG			
Casing Strings										
Csg Des				OD (in)		Grade		Wt/Len (lb/ft)		MD (ftKB)
Production				4 1/2		M-80		11.60		7,458.6
Cement Tops										
Des					Top (ftKB)					
SURFACE CASING CEMENT					15.0					
PRODUCTION CASING CEMENT					888.0					
Additional Downhole Equipment										
Des		OD (in)		Top (ftKB)		Btm (ftKB)		Run Date		
Retrievable Bridge Plug				3.99		7,195.0		7,197.0 5/28/2013 12:00		
Sand plug				3.99		7,193.0		7,195.0 5/28/2013 13:00		
Logs										
Type		Date		Top, MD (ftKB)		Btm, MD (ftKB)		Logging Company		
Caliper/Comp. Density/Neutron/GR/SP/ML		1/30/2009		3,100.0		5,529.0		PHOENIX SURVEYS INC		
DIL/GR/SP/Caliper		1/30/2009		956.0		5,529.0		PHOENIX SURVEYS INC		
PULSED NEUTRON		2/6/2009		900.0		7,400.0		J-W WIRELINE COMPANY		
CBL/CCL/GR		2/6/2009		0.0		7,423.0		J-W WIRELINE COMPANY		
GYRO		1/9/2013		14.0		7,250.0		VAUGHN ENERGY SERVICES LLC		
Daily Activity										
Job Category OTHER			Primary Job Type HORIZONTAL WELL PREP							
Rig Name KEY			Rig Operator			Rig Number 100	Rig Start Date 5/23/2013	Rig Release Date		
Field Cost Summary by Task										
Task					Field Est (Cost)					
02.3					34,128.00					
Report Start Date 5/24/2013		Report End Date 5/24/2013		Operations Summary WELL CONTROLLED THIS MORN. BLOW DOWN TO WORK TANK. PICK UP DOWN HOLE SERVICES BIT AND SCRAPER AND TIH WITH 2 3/8 4.7# EUE TBG. TAG AT 7290. CLEAN OUT TO 7428 PBTD. TOH SECURE AND SHUT WELL IN BILL TO APC PAD BYDALEK 35-20 HZ						
Operations Next Report Period SET PLUG DUMP SAND AND LAY DOWN 2 3/8 4.7# EUE ON TBG FLOAT										
Surface Casing Pressure (psi) 0		Tubing Pressure (psi) 0.0		Casing Pressure (psi) 0.0		Rig Time (hr) 10.00				
AFE Number 140360		Total AFE + Supp Amount (Cost)		Daily Field Est Total (Cost) 9,573		Total Job Cum Cost (Cost) 14,198				
Daily Costs										
Task	Line	Int/Tan	Cost Des	Field Est (Cost)	Vendor			Note		
02.3	0050	Intangible	Completion Unit	3,950.00						
02.3	0025	Intangible	Company Labor & Expense	375.00						
02.3	0029	Intangible	Trucking Eqmt/Material	350.00	MILLER-HFI, LLC					
02.3	0020	Intangible	Location-SitePrep/Maint	398.00	MILLER-HFI, LLC					
02.3	0043	Intangible	Rental-Other Misc	4,500.00	DOWNHOLE TOOL SERVICE, LLC					
Field Cost Summary by Description										
Cost Des					Field Est (Cost)					
Company Labor & Expense					1,950.00					
Completion Unit					20,700.00					
Location-SitePrep/Maint					398.00					
Rental-Other Misc					4,500.00					
Rent-Trash Trailer, etc					130.00					
Rent-Wellhead & Packer					3,650.00					
Trucking Eqmt/Material					1,000.00					
Wireline Services					1,800.00					



Onshore Completion Report

Well Name: PALMER X20-06

Report # 3, Report Date: 5/28/2013

API 05-123-29612		Prospect		Regulatory Field WATTENBERG		State/Province COLORADO		Country USA	
Quarter 1	Quarter 2	Quarter 3 SE	Quarter 4 NW	Section 20	Township 2	Township N/S Dir N		Range 65	Range E/W Dir W
Well Configuration Type VERTICAL		Original KB Elevation (ft) 4,942		KB - GL / MSL (ftKB) 14.00		KB-Casing Flange Distance (ft) 14.00		KB-Tubing Head Distance (ft) 11.00	

Directions To Well WCR 39 & 20, EAST .3, SOUTH .4, EAST INTO		Comment	
TD (TVD) (ftKB) ORIGINAL HOLE - 7,465.0		Current PBTD (ftKB) ORIGINAL HOLE - 7,428.0	

Original PBTD			
Date 2/6/2009	Depth (ftKB) 7,428.0	Type FILL	Measurement Method CASED HOLE LOG

Casing Strings				
Csg Des	OD (in)	Grade	Wt/Len (lb/ft)	MD (ftKB)
Production	4 1/2	M-80	11.60	7,458.6

Cement Tops	
Des	Top (ftKB)
SURFACE CASING CEMENT	15.0
PRODUCTION CASING CEMENT	888.0

Additional Downhole Equipment				
Des	OD (in)	Top (ftKB)	Btm (ftKB)	Run Date
Retrievable Bridge Plug	3.99	7,195.0	7,197.0	5/28/2013 12:00
Sand plug	3.99	7,193.0	7,195.0	5/28/2013 13:00

Logs				
Type	Date	Top, MD (ftKB)	Btm, MD (ftKB)	Logging Company
Caliper/Comp. Density/Neutron/GR/SP/ML	1/30/2009	3,100.0	5,529.0	PHOENIX SURVEYS INC
DIL/GR/SP/Caliper	1/30/2009	956.0	5,529.0	PHOENIX SURVEYS INC
PULSED NEUTRON	2/6/2009	900.0	7,400.0	J-W WIRELINE COMPANY
CBL/CCL/GR	2/6/2009	0.0	7,423.0	J-W WIRELINE COMPANY
GYRO	1/9/2013	14.0	7,250.0	VAUGHN ENERGY SERVICES LLC

Daily Activity				
Job Category OTHER	Primary Job Type HORIZONTAL WELL PREP			
Rig Name KEY	Rig Operator	Rig Number 100	Rig Start Date 5/23/2013	Rig Release Date

Field Cost Summary by Task	
Task	Field Est (Cost)
02.3	34,128.00

Report Start Date 5/28/2013	Report End Date 5/28/2013	Operations Summary WELL CONTROLLED THIS MORN. TIH WITH DOWNHOLE SERVICES 4 1/2 RBP AND 2 3/8 4.7# EUE TBG. SET PLUG WITH 236 JTS. 7195. LAY 1 JT DOWN. ROLL HOLE CLEAN AND PSI TEST. HOLD 1550# PSI FOR 10 MIN. HELD SOLID. RELEASE PSI TO TANK. LAY DOWN 2 MORE JTS AND DUMP 2 SAX SAND. FINISH LAYING DOWN TBG ON FLOAT. STRIP OFF JU RUBBER NIPPLE DOWN. PUT ON 5000# FRAC VALVE. RDMOL.
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Operations Next Report Period MIRU. TALLY OUT			
Surface Casing Pressure (psi) 0	Tubing Pressure (psi) 0.0	Casing Pressure (psi) 0.0	Rig Time (hr) 11.50
AFE Number 140360	Total AFE + Supp Amount (Cost)	Daily Field Est Total (Cost) 19,930	Total Job Cum Cost (Cost) 34,128

Daily Costs						
Task	Line	Int/Tan	Cost Des	Field Est (Cost)	Vendor	Note
02.3	0050	Intangible	Completion Unit	12,500.00		
02.3	0025	Intangible	Company Labor & Expense	1,200.00		
02.3	0029	Intangible	Trucking Eqmt/Material	650.00		
02.3	0052	Intangible	Wireline Services	1,800.00		
02.3	0042	Intangible	Rent-Wellhead & Packer	3,650.00		
02.3	0036	Intangible	Rent-Trash Trailer, etc	130.00		

Field Cost Summary by Description	
Cost Des	Field Est (Cost)
Company Labor & Expense	1,950.00
Completion Unit	20,700.00
Location-SitePrep/Maint	398.00
Rental-Other Misc	4,500.00
Rent-Trash Trailer, etc	130.00
Rent-Wellhead & Packer	3,650.00
Trucking Eqmt/Material	1,000.00
Wireline Services	1,800.00