

Current Well Diagram


 8.5/8" Csg
 Shoe @
 296'

500' Morrison

 3,306'
 DV Collar

 4,610' Hermosa
 5,606' Ismay
 5,680' Paradox
 5,730' Desert Creek

 5.1/2" Casing
 Shoe @
 5,748'

 5,650'
 2.7/8" Tubing
 PBTD: 5,706'
 TD: 5,750'

Well Cache Unit #6

WELL & PROJECT DETAIL

Lease	C-02763	Facility ID	223752	Company	BP Remediation Management
API	05-083-05152	Location ID	313428	Project Mgr	C. Michael Jackson
Field	Cache - 9610	Permit No	19650103	Address	201 Helios Way, 6.372C, Houston, Tx 77079
County	Montezuma - 083	Spud Date	30 March 1965	Date	December 2017
State	Colorado	Pro Date	24 April 1965	Phone	713.437.9285

LOCATION DETAIL

Coordinates	DD Latitude	37.241979		DMS Latitude	N 37° 14' 32.896"		
	DD Longitude	-109.024553		DMS Longitude	W 109° 1' 21.522"		
SWSW 35 35N20W N PM		Section	35	Town	35 North	Range	20 West
Planned	600 Ft from the South Line & 765 ft from the West Line						
Elevation	5,007'						

COMPLETION DETAIL (COGCC dated 06 Oct 2014)

Csg / Tbg	Depth	Weight	Grade	ID	Burst	Collapse	Capacity
8.5/8"	296'	24		8.097"			0.0637
5.1/2"	5,748'	14		5.012"			0.0244
2.7/8"	5,650'						

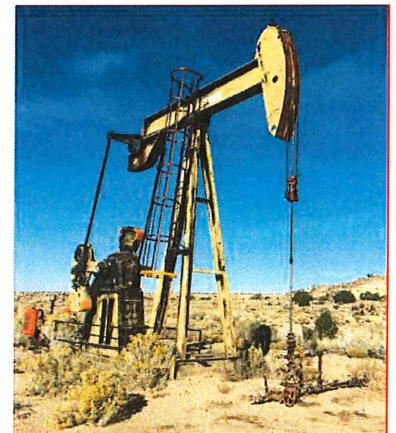
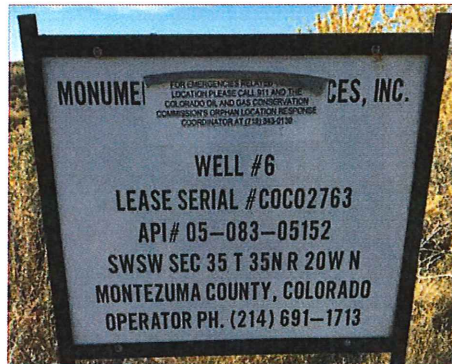
ORIGINAL CASING CEMENTING DETAIL


Hole	Depth	Cement Type	Volume	Weight	Yield	TOC	
11" x 8.5/8"	296'	Reg 2%	225 sacks			Surface (calc)	
7.7/8" x 5.1/2"	5,748'	Class C	400 sacks			3,047' (calc)	1st Stage
7.7/8" x 5.1/2"	3,306' DV	Class C	500 sacks			Surface (calc)	2nd Stage

WELL BACKGROUND

Note: Casing cement heights calculated from historical records and utilizing a typical 1.15 yield for the cement

Status: Shut In



4 Ft Below Grade			P&A Well Abandonment Diagram				Remediation Management Environmental liability management is our business.					
Well		Cache Unit #6										
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Well Abandonment Work Scope												
					Sacks	FT³	Water (bbt)					
Class: G		Plug #1	Primary isolaton of the reservoir		180	207	18					
Weight: 15.8 ppg		Plug #2	Secondary isolation of reservoir		60	69	6					
Yield: 1.15 ft³		Plug #3	Primary isolation of water table		180	207	18					
* NOTE: Municipal water to be utilized for cement slurry and well displacement.					420	483	43					
1. Mobilize rig and equipment												
2. Braden head pressure - Install a gauge on the Braden head. Document; pressure, blow down characteristis and monitor												
a. Dig out around well head to verify potential valves below grade												
b. Monitor and document the Braden head pressure throughout the P&A program												
3. Rig up unit on well												
4. Rig up BOPs and fluid handling system on well - NO fluids to touch the ground												
5. Pull and lay down rods testing for NORM												
6. Pull and lay down tubing testing for NORM												
7. Wash and ream into hole with work string to PBTD at 5,706' or as deep as possible												
8. Displace the well to fresh water containing corrosion inhibitor												
9. Plug #1 - Pump 180 sacks of 15.8 ppg cement Class G with 1.15 yield from 5,706' PBTD to a minimum of 4,400'												
10. Pull out of hole to 4,100' and circulate waiting on cement for 8 hours												
11. Run in hole and tag cement plug - maximum depth to be 4,400'. Pump an additional cement plug if required												
12. Pull out of hole to 3,400'												
13. Plug #2 - Pump 60 sacks of 15.8 ppg cement Class G with 1.15 yield from 3,400' to 2,900'												
14. Pull out of hole and pick up tubing conveyed 5.1/2" cast iron bridge plug												
15. Run in hole and set CIBP at 1,500' and confirm set with tagging												
16. Plug #3 - Pump 180 sacks of 15.8 ppg cement Class G with 1.15 yield from 1,500' to surface												
17. Pull out of hole with work string												
18. Top off work string displacement with cement to surface												
19. Move off rig and equipment												
20. Excavate the casing down to 4 feet below grade and cut same												
21. Tack weld a 1/4" metal plate dry hole marker with drilled vent hole to the cut casing												
a. Dry Hole Marker Requirements:												
- Well Name & Number												
- API Number												
- Legal Location												
22. Back fill 4 foot excavation												
23. Remove pumping unit, pumping unit motor, pumping unit cement pads and any other ancillary equipment for salvage												
Cut or pull derrick anchors 4' below grade as well as cut & plug subsurface pipelines 4' below grade and backfill												
24. Surface pipelines and well site reclamation will be covered under a separate reclamation project.												

8.5/8" Csg Shoe @ 296'		Plug #3 180 Sacks Class G 15.8 ppg 1.15 Yield		500' Morrison	
		1,500'			
		CIBP			
		Inhibited Fresh Water			
		2,900'			
		Plug #2 60 Sacks Class G 15.8 ppg 1.15 Yield		3,306' DV Collar	
		3,400'			
		Inhibited Fresh Water			
		Tag Cement 4,400'		4,610' Hermosa 5,606' Ismay 5,680' Paradox 5,730' Desert Creek	
		Plug #1 180 Sacks Class G 15.8 ppg 1.15 Yield			
5.1/2" Casing Shoe @ 5,748'					
		PBTD: 5,706'			
		TD: 5,750'			