

Jones, William V., EMNRD

From: Darrell Garrett [dgarrett@parminerals.com]
Sent: Thursday, July 19, 2007 5:27 PM
To: Jones, William V., EMNRD; Williams, Chris, EMNRD
Subject: FW: Fowler Federal p 6 ST.pdf - Adobe Reader
Attachments: Fowler Federal p 6 ST.pdf

Gentlemen: Pursuant to your request of our counsel, attached is the well plan for the proposes deviated well. PAR anticipates the top of the Ellenberger formation will be penetrated 40' east of the west boundary line of Unit A. Please advise if this satisfies your inquiry and if we can provide you anything additional. Thanks.

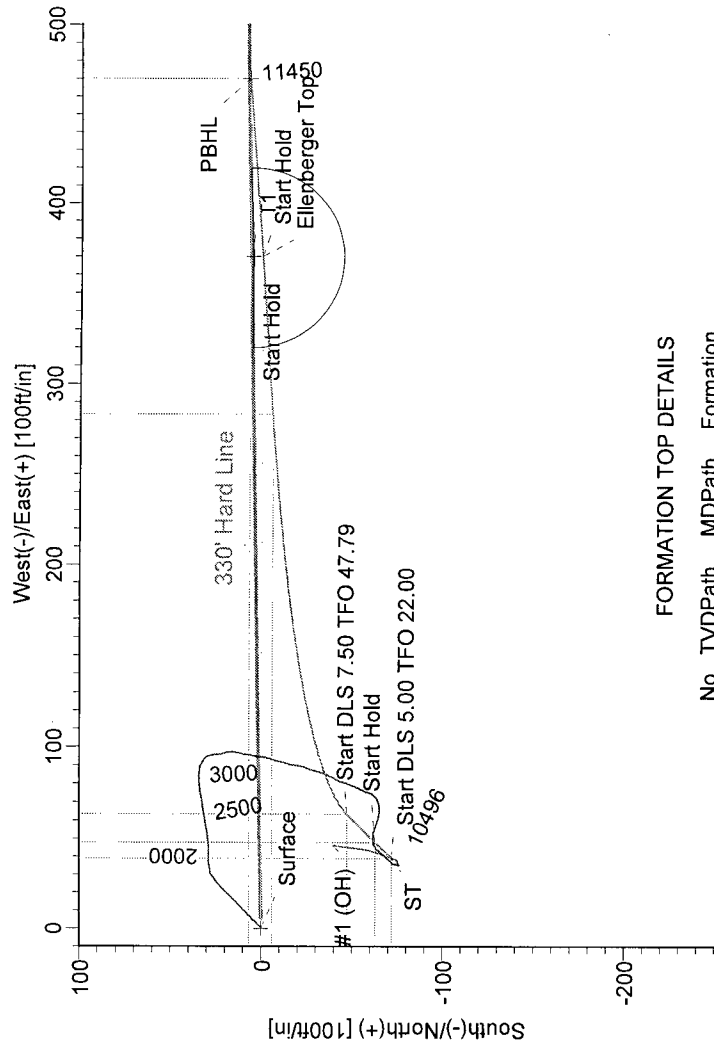
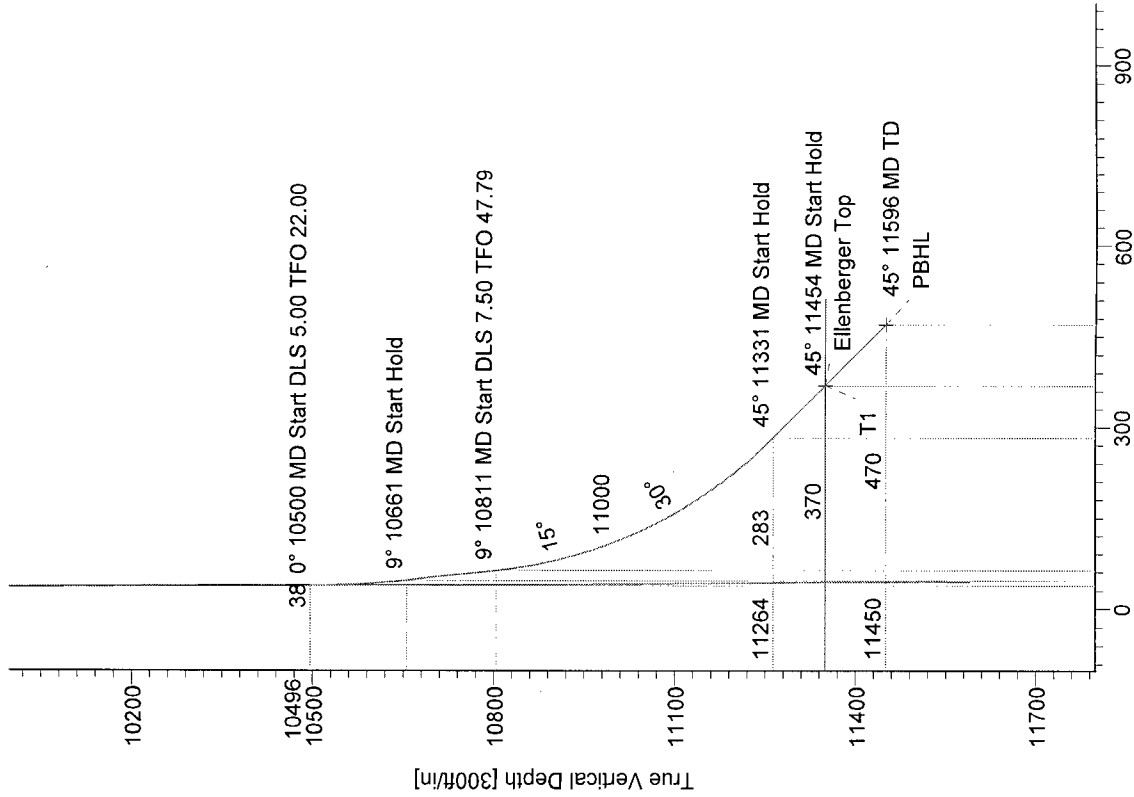
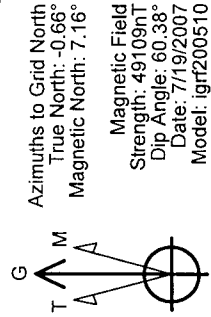
From: Jack LaGrone [mailto:jlagrone@parminerals.com]
Sent: Thursday, July 19, 2007 3:41 PM
To: 'Darrell Garrett'; 'Windell Phillips'
Subject: Fowler Federal p 6 ST.pdf - Adobe Reader

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7/20/2007

PAR MINERALS

Field: Lea County, New Mexico
 Site: Fowler Federal
 Well: #1
 Wellpath: ST
 Plan: Plan #6



FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	11350.00	11453.93	Ellenberg Top

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Surface	0.00	0.00	0.00	Point
T1	11350.00	5.00	370.00	Circle (Radius: 50)
PBHL	11450.00	6.82	470.26	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	10500.00	0.50	24.18	10496.07	-72.05	39.15	0.00	0.00	38.17	
2	10660.69	8.50	44.93	10656.14	-62.98	47.84	5.00	22.00	46.98	
3	10810.69	8.50	44.93	10804.49	-47.28	63.49	0.00	0.00	62.85	
4	11331.50	45.14	86.11	11263.64	-5.89	283.42	7.50	47.79	283.31	
5	11453.93	45.14	86.11	11350.00	0.00	370.00	0.00	0.00	369.97	PBHL
6	11595.69	45.14	86.11	11450.00	6.82	470.26	0.00	0.00	470.31	PBHL



LEAM DRILLING SYSTEMS, INC.
 101 Industrial Court Conroe, Texas 77301
 Phone: 936-756-7577 Fax: 936-756-7595

Created By: Tony LaRocca Date: 7/19/2007
 Checked: Date:
 Reviewed: Date:
 Approved: Date:
 Plan: Plan #6 (#137)

Leam Drilling Systems, Inc.

Planning Report

Company: PAR MINERALS		Date: 7/19/2007		Time: 16:13:38		Page: 1	
Field: Lea County, New Mexico		Co-ordinate(NE) Reference:		Site: Fowler Federal, Grid North			
Site: Fowler Federal		Vertical(TVD) Reference:		SITE 0.0			
Well: #1		Section (VS) Reference:		Well (0.00N,0.00E,89.23Azi)			
Wellpath: ST		Survey Calculation Method:		Minimum Curvature		Db: Sybase	

Field: Lea County, New Mexico	
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Site Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf200510

Site: Fowler Federal	
Site Position:	Northing: 447267.00 ft
From: Map	Easting: 882657.00 ft
Position Uncertainty: 0.00 ft	Latitude: 32 13 24.948 N
Ground Level: 0.00 ft	Longitude: 103 5 45.472 W
	North Reference: Grid
	Grid Convergence: 0.66 deg

Well: #1		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 447267.00 ft	Latitude: 32 13 24.948 N	
+E/-W 0.00 ft	Easting: 882657.00 ft	Longitude: 103 5 45.472 W	
Position Uncertainty: 0.00 ft			

Wellpath: ST		Drilled From: OH	
Current Datum: SITE	Height 0.00 ft	Tie-on Depth: 10500.00 ft	
Magnetic Data: 7/19/2007		Above System Datum: Mean Sea Level	
Field Strength: 49109 nT		Declination: 7.82 deg	
Vertical Section: Depth From (TVD) ft	+N/-S ft	Mag Dip Angle: 60.38 deg	
		+E/-W ft	Direction deg
0.00	0.00	0.00	89.23

Plan: Plan #6		Date Composed: 7/19/2007	
Carry out 120 ft TVD		Version: 1	
Principal: No		Tied-to: From: Definitive Path	

Plan Section Information										
MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
10500.00	0.50	24.18	10496.07	-72.05	39.15	0.00	0.00	0.00	0.00	
10660.69	8.50	44.93	10656.14	-62.98	47.84	5.00	4.98	12.91	22.00	
10810.69	8.50	44.93	10804.49	-47.28	63.49	0.00	0.00	0.00	0.00	
11331.50	45.14	86.11	11263.64	-5.89	283.42	7.50	7.04	7.91	47.79	
11453.93	45.14	86.11	11350.00	0.00	370.00	0.00	0.00	0.00	0.00	
11595.69	45.14	86.11	11450.00	6.82	470.26	0.00	0.00	0.00	0.00	PBHL

Survey										
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
10500.00	0.50	24.18	10496.07	-72.05	39.15	38.17	0.00	0.00	0.00	
10600.00	5.47	44.22	10595.91	-68.23	42.65	41.73	5.00	4.97	20.04	
10660.69	8.50	44.93	10656.14	-62.98	47.84	46.98	5.00	5.00	1.16	
10700.00	8.50	44.93	10695.02	-58.87	51.94	51.14	0.00	0.00	0.00	
10800.00	8.50	44.93	10793.92	-48.40	62.38	61.72	0.00	0.00	0.00	
10810.69	8.50	44.93	10804.49	-47.28	63.49	62.85	0.00	0.00	0.00	
10850.00	10.70	56.76	10843.25	-43.23	68.60	68.01	7.50	5.61	30.11	
10900.00	13.91	65.99	10892.10	-38.23	77.98	77.45	7.50	6.41	18.46	
10950.00	17.33	71.73	10940.25	-33.45	90.54	90.08	7.50	6.84	11.48	
11000.00	20.86	75.60	10987.50	-28.90	106.24	105.84	7.50	7.06	7.74	
11050.00	24.46	78.39	11033.63	-24.60	125.01	124.67	7.50	7.19	5.57	
11100.00	28.09	80.49	11078.46	-20.57	146.76	146.47	7.50	7.27	4.21	
11150.00	31.75	82.15	11121.79	-16.83	171.41	171.17	7.50	7.32	3.31	
11200.00	35.42	83.49	11163.44	-13.39	198.85	198.65	7.50	7.35	2.69	
11250.00	39.11	84.61	11203.22	-10.27	228.96	228.80	7.50	7.38	2.24	

Leam Drilling Systems, Inc.

Planning Report

Company: PAR MINERALS Field: Lea County, New Mexico Site: Fowler Federal Well: #1 Wellpath: ST	Date: 7/19/2007 Co-ordinate(NE) Reference: Site: Fowler Federal, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,89.23Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
11300.00	42.81	85.57	11240.98	-7.47	261.61	261.48	7.50	7.39	1.91	
11331.50	45.14	86.11	11263.64	-5.89	283.42	283.31	7.50	7.41	1.70	
11400.00	45.14	86.11	11311.96	-2.59	331.86	331.80	0.00	0.00	0.00	
11453.93	45.14	86.11	11350.00	0.00	370.00	369.97	0.00	0.00	0.00	T1
11500.00	45.14	86.11	11382.50	2.22	402.58	402.58	0.00	0.00	0.00	
11595.69	45.14	86.11	11450.00	6.82	470.26	470.31	0.00	0.00	0.00	PBHL

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<-- Latitude --> Deg Min Sec			<-- Longitude --> Deg Min Sec		
Surface			0.00	0.00	0.00	447267.00	882657.00	32	13	24.948 N	103	5	45.472 W
T1			11350.00	5.00	370.00	447272.00	883027.00	32	13	24.955 N	103	5	41.165 W
-Circle (Radius: 50)			11350.00	0.00	370.00	447267.00	883027.00	32	13	24.906 N	103	5	41.165 W
PBHL			11450.00	6.82	470.26	447273.82	883127.26	32	13	24.962 N	103	5	39.998 W
-Plan hit target													

Casing Points

MD	TVD	Diameter	Hole Size	Name

Formations

MD ft	TVD ft	Formations	Lithology	Dip Angle deg	Dip Direction deg
11453.93	11350.00	Ellenberger Top		0.00	0.00