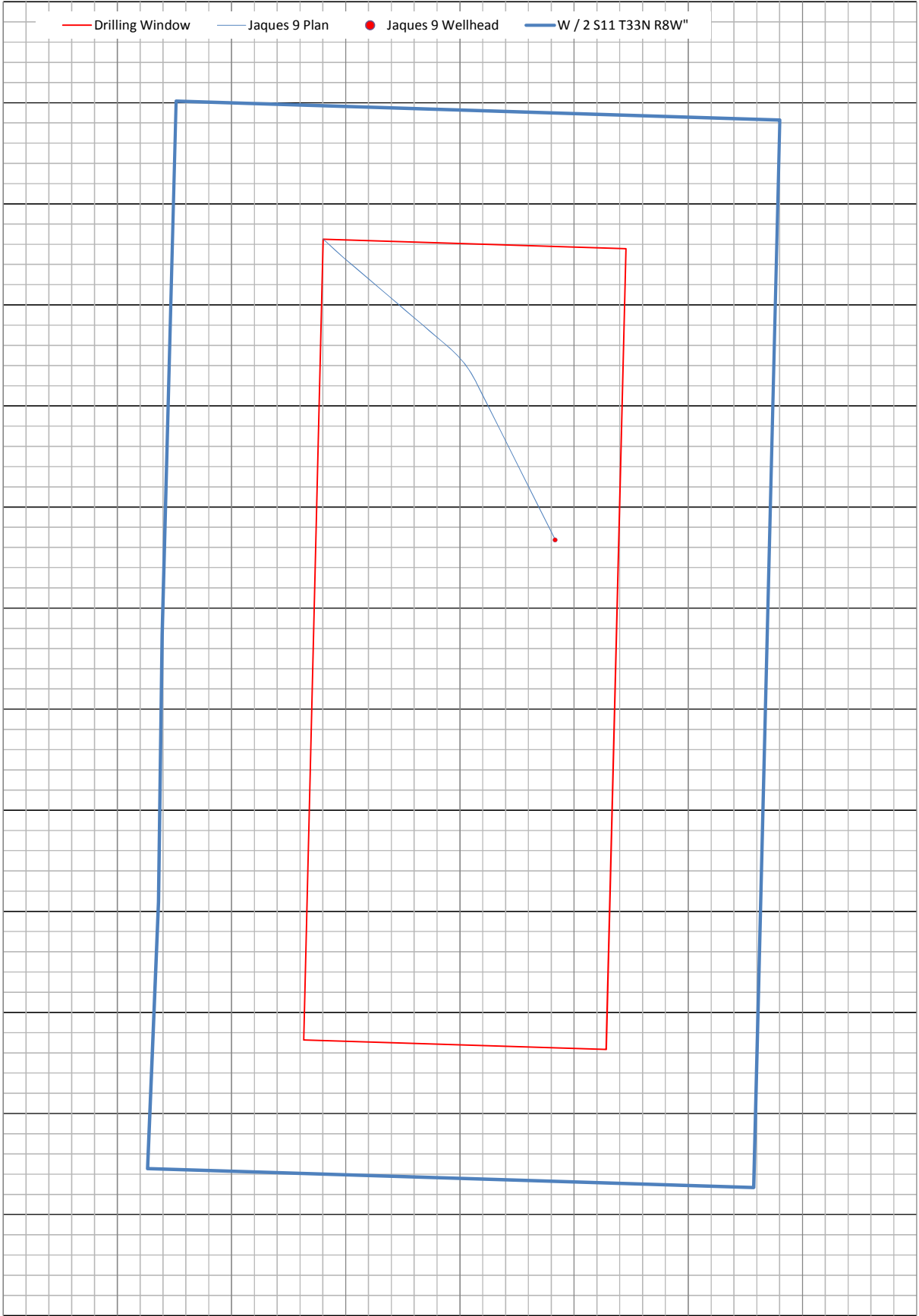


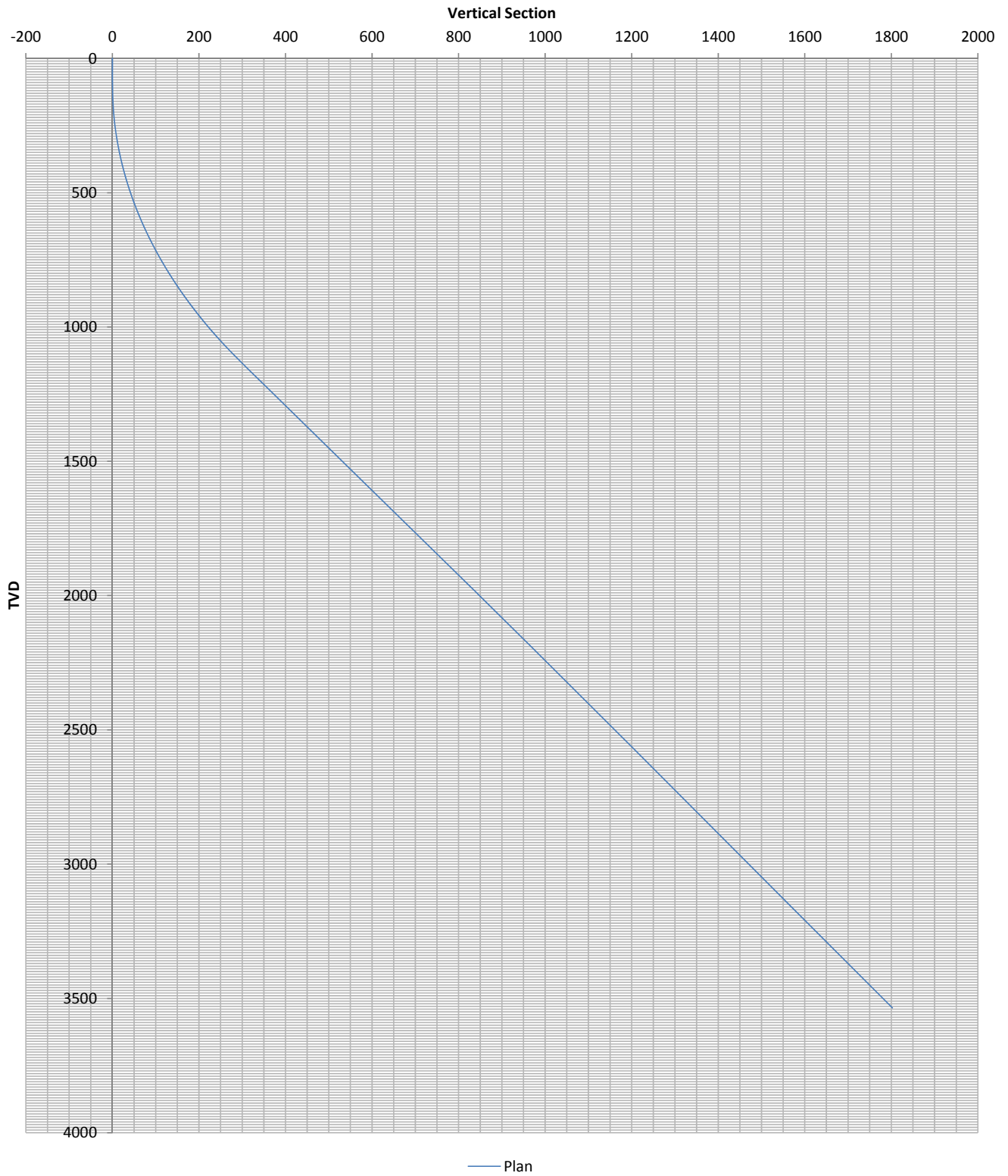
**Ignacio Blanco, Jaques Sec 27
Fruitland Coal
Jaques 9
Plan #1**

**Catamount Energy Partners
Proposal Report**

Section Drawing- Jaques 9



Jaques 9 VS View



Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Map Coordinates
Company:		TVD Reference:	Mean Sea Level
Project:	Jaques Sec 27	MD Reference:	Jaques 9
Site:	Fruitland Coal	North reference:	Grid North
Well:	Jaques 9	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Plan #1		

Project	Jaques Sec 27		
Map System:	NAD83 Colorado State Planes	System Datum:	Mean Sea Level
Geo Datum:	NAD 1983		
Map Zone:	Southern Zone		

Site	Fruitland Coal		
Site Position:		Northing:	0
From:	Map	Easting:	0
Position Uncertainty:	0ft	Slot Radius:	0in
		Latitude:	33.48902771° N
		Longitude:	115.33027986° W
		Grid Convergence:	-6.0°

Well	Jaques 9		
Well Position:	+N/-S	1,156,837ft	Northing: +1,156,837
	+E/-W	2,355,918ft	Easting: +2,355,918
Position Uncertainty:		1ft	Wellhead Elevation: 7,047ft
			Latitude: 37.07648569° N
			Longitude: 107.70786272° W
			Ground Level: 7,031ft

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	2/5/2018	0.0	0.0	0.0

Proposal	Plan #1		
Audit Notes:			
Version:		Phase:	Tie On Depth: 0ft

Vertical Section:	Depth from TVD (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0	0	0	325.7

Survey Program		2/5/2018		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0	4,039	Plan #1	MWD	MWD

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0	0.0	0.0	0	0	0					
100	0.0	0.0	100	0	0	0.0	0.0	0.0	0.0	
1,193	32.8	336.0	1,135	278	-124	3.0	3.0	0.0	-24.0	
2,213	32.8	336.0	1,992	783	-348	0.0	0.0	0.0	0.0	
2,609	32.3	313.9	2,326	955	-468	3.0	-0.1	-5.6	-101.5	
3,745	32.3	313.9	3,286	1,377	-906	0.0	0.0	0.0	0.0	
4,039	32.2	316.5	3,535	1,488	-1,017	0.5	-0.1	0.9	97.2	TD

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
0	0.0	0.0	0	-7,047	0	0	0	0	0.0	0.0	MWD
100	0.0	0.0	100	-6,947	0	0	0	0	0.0	0.0	
100	0.0	0.0	100	-6,947	0	0	0	0	0.0	0.0	
200	3.0	336.0	200	-6,847	2	-1	3	3	336.0	3.0	
300	6.0	336.0	300	-6,747	10	-4	10	10	336.0	3.0	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Map Coordinates
Company:		TVD Reference:	Mean Sea Level
Project:	Jaques Sec 27	MD Reference:	Jaques 9
Site:	Fruitland Coal	North reference:	Grid North
Well:	Jaques 9	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Plan #1		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
350	7.5	336.0	349	-6,698	15	-7	16	16	336.0	3.0	9 5/8in Casing
400	9.0	336.0	399	-6,648	21	-10	23	24	336.0	3.0	
500	12.0	336.0	497	-6,550	38	-17	41	42	336.0	3.0	
600	15.0	336.0	594	-6,453	59	-26	64	65	336.0	3.0	
696	17.9	336.0	686	-6,361	84	-37	91	92	336.0	3.0	
700	18.0	336.0	690	-6,357	85	-38	92	93	336.0	3.0	KOP
800	21.0	336.0	784	-6,263	116	-52	125	127	336.0	3.0	
900	24.0	336.0	877	-6,170	151	-67	162	165	336.0	3.0	
1,000	27.0	336.0	967	-6,080	190	-85	205	208	336.0	3.0	
1,100	30.0	336.0	1,055	-5,992	234	-104	252	256	336.0	3.0	
1,193	32.8	336.0	1,135	-5,912	278	-124	300	305	336.0	3.0	
1,200	32.8	336.0	1,140	-5,907	282	-125	303	308	336.0	0.0	
1,300	32.8	336.0	1,224	-5,823	331	-147	356	362	336.0	0.0	
1,400	32.8	336.0	1,308	-5,739	381	-169	410	416	336.0	0.0	
1,500	32.8	336.0	1,392	-5,655	430	-191	463	471	336.0	0.0	
1,600	32.8	336.0	1,476	-5,571	480	-213	516	525	336.0	0.0	
1,700	32.8	336.0	1,560	-5,487	529	-235	570	579	336.0	0.0	
1,800	32.8	336.0	1,645	-5,402	579	-257	623	633	336.0	0.0	
1,900	32.8	336.0	1,729	-5,318	628	-279	676	687	336.0	0.0	
2,000	32.8	336.0	1,813	-5,234	678	-301	729	741	336.0	0.0	
2,100	32.8	336.0	1,897	-5,150	727	-323	783	796	336.0	0.0	Animas
2,109	32.8	336.0	1,904	-5,143	731	-325	787	800	336.0	0.0	
2,200	32.8	336.0	1,981	-5,066	777	-345	836	850	336.0	0.0	
2,213	32.8	336.0	1,992	-5,055	783	-348	843	857	336.0	0.0	
2,260	32.5	333.5	2,031	-5,016	806	-359	868	882	336.0	3.0	
2,300	32.4	331.3	2,065	-4,982	825	-369	889	904	335.9	3.0	Kirtland Shale
2,400	32.1	325.7	2,150	-4,897	870	-397	942	957	335.5	3.0	
2,411	32.1	325.1	2,159	-4,888	875	-400	948	962	335.4	3.0	
2,500	32.1	320.0	2,234	-4,813	913	-429	995	1,008	334.8	3.0	
2,600	32.3	314.4	2,319	-4,728	952	-465	1,048	1,059	334.0	3.0	
2,609	32.3	313.9	2,326	-4,721	955	-468	1,053	1,064	333.9	3.0	Farmington SS
2,668	32.3	313.9	2,376	-4,671	977	-491	1,083	1,093	333.3	0.0	
2,700	32.3	313.9	2,403	-4,644	989	-503	1,101	1,110	333.0	0.0	
2,800	32.3	313.9	2,488	-4,559	1,026	-542	1,153	1,160	332.2	0.0	
2,900	32.3	313.9	2,572	-4,475	1,063	-580	1,205	1,211	331.4	0.0	
3,000	32.3	313.9	2,657	-4,390	1,100	-619	1,258	1,262	330.6	0.0	Lower Kirtland Shale
3,100	32.3	313.9	2,741	-4,306	1,137	-657	1,310	1,314	330.0	0.0	
3,200	32.3	313.9	2,826	-4,221	1,175	-696	1,362	1,365	329.3	0.0	
3,229	32.3	313.9	2,850	-4,197	1,185	-707	1,377	1,380	329.2	0.0	
3,300	32.3	313.9	2,910	-4,137	1,212	-735	1,415	1,417	328.8	0.0	
3,400	32.3	313.9	2,995	-4,052	1,249	-773	1,467	1,469	328.2	0.0	Upper Fruitland Coal
3,500	32.3	313.9	3,079	-3,968	1,286	-812	1,520	1,521	327.7	0.0	
3,600	32.3	313.9	3,164	-3,883	1,323	-850	1,572	1,573	327.3	0.0	
3,632	32.3	313.9	3,191	-3,856	1,335	-863	1,589	1,589	327.1	0.0	
3,700	32.3	313.9	3,248	-3,799	1,360	-889	1,624	1,625	326.8	0.0	
3,745	32.3	313.9	3,286	-3,761	1,377	-906	1,648	1,648	326.7	0.0	Main Fruitland Coal
3,787	32.3	314.3	3,322	-3,725	1,392	-922	1,670	1,670	326.5	0.5	
3,800	32.3	314.4	3,333	-3,714	1,397	-927	1,677	1,677	326.4	0.5	Pictured Cliffs
3,862	32.3	314.9	3,385	-3,662	1,420	-951	1,709	1,709	326.2	0.5	
3,900	32.3	315.3	3,417	-3,630	1,435	-965	1,729	1,729	326.1	0.5	
4,000	32.2	316.2	3,502	-3,545	1,473	-1,002	1,782	1,782	325.8	0.5	

Catamount Energy Partners

Proposal Report



Database:	San Juan Basin	Local Coordinate Reference:	Map Coordinates
Company:		TVD Reference:	Mean Sea Level
Project:	Jaques Sec 27	MD Reference:	Jaques 9
Site:	Fruitland Coal	North reference:	Grid North
Well:	Jaques 9	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Proposal:	Plan #1		

Planned Survey											
Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
4,029	32.2	316.4	3,526	-3,521	1,484	-1,013	1,797	1,797	325.7	0.5	7in Casing
4,039	32.2	316.5	3,535	-3,512	1,488	-1,017	1,802	1,802	325.7	0.5	TD

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
-hit/miss target										
-Shape										
KOP			716	0	0	+1,156,837	+2,355,918	37.07648569° N	107.70786272° W	
- proposal misses the target center by 97ft at 696ft MD (686TVD, +84, -37)										
- Point										
TD			3,535	1,488	-1,017	+1,158,325	+2,354,901	37.08050565° N	107.71146707° W	
- proposal hits the target center										
- Point										
Target 2			2,047	783	-348	+1,157,620	+2,355,570	37.07861360° N	107.70911892° W	
- proposal misses the target center by 30ft at 2,260ft MD (2,031TVD, +806, -359)										
- Point										

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Subsea Depth (ft)	Name	Dip Angle (°)	Dip Direction (°)	
2,109	-5,143	-5,143	Animas	0.0	0.0	
2,411	-4,888	-4,888	Kirtland Shale	0.0	0.0	
2,668	-4,671	-4,671	Farmington SS	0.0	0.0	
3,229	-4,197	-4,197	Lower Kirtland Shale	0.0	0.0	
3,632	-3,856	-3,856	Upper Fruitland Coal	0.0	0.0	
3,787	-3,725	-3,725	Main Fruitland Coal	0.0	0.0	
3,862	-3,662	-3,662	Pictured Cliffs	0.0	0.0	

Casing Points				
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
350	349	9 5/8in Casing	9 5/8	12 1/4
4,029	3,526	7in Casing	7	9 1/2

Checked By:	Approved By:	Date:
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