

30-045-35187



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUDSON 5M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9417		AFE \$: 895,252.37	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
				Phone:	

Primary Objective (Zones):

Zone	Zone Name
FRR	BASIN DAKOTA (PRORATED GAS)
RON	BLANCO MESAVERDE (PRORATED GAS)

Location: Surface		Datum Code: NAD 27		Directional	
Latitude: 36.903317	Longitude: -107.908739	X:	Y:	Section: 17	Range: 010W
Footage X: 1670 FWL	Footage Y: 893 FNL	Elevation: 6010	(FT)	Township: 031N	
Tolerance:					

Location: Bottom Hole		Datum Code: NAD 27		Directional	
Latitude: 36.902467	Longitude: -107.911989	X:	Y:	Section: 17	Range: 010W
Footage X: 710 FWL	Footage Y: 1200 FNL	Elevation:	(FT)	Township: 031N	
Tolerance:					

Location Type: Restricted	Start Date (Est.): 1/1/2011	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6025 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	5825		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
OJO ALAMO	1295	4730		☐			
KIRTLAND	1353	4672		☐			
FRUITLAND	2166	3859		☐			Possible Gas
PICTURED CLIFFS	2791	3234		☐			
LEWIS	2903	3122		☐			
Intermediate Casing	3203	2822		☐	118		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 767 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3465	2560		☐			
CHACRA	3851	2174		☐			
UPPER CLIFF HOUSE	4238	1787		☐			Gas; Est. Top Perf - 4240 (1785)
MASSIVE CLIFF HOUSE	4483	1542		☐	329		Gas; Cliffhouse is dry
MENEFEE	4585	1440		☐			
POINT LOOKOUT	5005	1020		☐			
MANCOS	5307	718		☐			
UPPER GALLUP	6291	-266		☐			
GREENHORN	7009	-984		☐			
GRANEROS	7061	-1036		☐			
TWO WELLS	7119	-1094		☐	2787		Gas
PAGUATE	7211	-1186		☐			
UPPER CUBERO	7237	-1212		☐			
LOWER CUBERO	7246	-1221		☐			Est. Btm Perf - 7312 (- 1287) based on offset wells

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HUDSON 5M

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ENCINAL	7327	-1302	☐	TD - T/ENCN
Total Depth	7327	-1302	☐	207 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 562 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Caneple Gas Com 1M	31N 10W 18 NW SW SE
Production	Scott 4B	31N 10W 17 NE SW NE
Production	Marcotte 2	31N 10W 8 NE SE
Production	Hudson 5B	31N 10W 17 NE SW SW

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Cased Hole GR / CBL

Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips SJB

San Juan Basin - New Mexico Wells

Other Named Wells

Hudson #5M

Original Hole

Plan: Plan #1

Standard Planning Report

02 August, 2010

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Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Hudson #5M
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6025 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6025 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Hudson #5M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Project	San Juan Basin - New Mexico Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site	Other Named Wells		
Site Position:		Northing:	2,108,178 26 ft
From:	Lat/Long	Easting:	643,887 63 ft
Position Uncertainty:	15 0 ft	Slot Radius:	6-1/8"
		Latitude:	36° 47' 33 793 N
		Longitude:	107° 20' 30 932 W
		Grid Convergence:	0 29 °

Well	Hudson #5M, Directional S-Curve Short Stepout		
Well Position	+N/-S	0 0 ft	Northing: 2,148,080 21 ft
	+E/-W	0 0 ft	Easting: 477,952 58 ft
Position Uncertainty		3 5 ft	Wellhead Elevation: ft
			Latitude: 36° 54' 11.941 N
			Longitude: 107° 54' 31 460 W
			Ground Level: 6,010 0ft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2010	8/2/2010	10 07
			Dip Angle (°)
			63 63
			Field Strength (nT)
			50,900

Design	Plan #1		
Audit Notes:			
Version:	1	Phase:	PROTOTYPE
		Tie On Depth:	0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0 0	0 0	0.0
			Direction (°)
			251 96

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 00	0 00	0 0	0 0	0 0	0 00	0 00	0 00	0 00	
320 0	0 00	0 00	320 0	0 0	0 0	0 00	0 00	0 00	0 00	
1,216 9	26 91	251 96	1,184.3	-64 0	-196 6	3 00	3 00	0 00	251 96	
2,511 4	26 91	251 96	2,338 7	-245 4	-753 7	0 00	0 00	0 00	0 00	
3,408 4	0 00	0 00	3,203 0	-309 5	-950.3	3 00	-3 00	0 00	180 00	Hudson #5M ICP
7,532 4	0 00	0 00	7,327 0	-309 5	-950 3	0 00	0 00	0 00	0 00	Hudson #5M PCP

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Planning Report

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Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6025 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6025 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Hudson #5M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0 0	0 00	0 00	0 0	0 0	0 0	0 0	0 00	0 00	0 00
100 0	0 00	0 00	100 0	0 0	0 0	0 0	0 00	0 00	0 00
200 0	0 00	0 00	200 0	0 0	0 0	0 0	0 00	0 00	0 00
230 0	0 00	0 00	230 0	0 0	0 0	0 0	0 00	0 00	0 00
Surface									
300 0	0 00	0 00	300 0	0 0	0 0	0 0	0 00	0 00	0 00
320 0	0 00	0 00	320 0	0 0	0 0	0 0	0 00	0 00	0 00
400 0	2 40	251 96	400 0	-0 5	-1 6	1 7	3 00	3 00	0 00
500 0	5 40	251 96	499 7	-2 6	-8 1	8 5	3 00	3 00	0 00
600 0	8 40	251 96	599 0	-6 3	-19 5	20 5	3 00	3 00	0 00
700 0	11 40	251 96	697 5	-11 7	-35 8	37 7	3 00	3 00	0 00
800 0	14 40	251 96	795 0	-18 6	-57 1	60 0	3 00	3 00	0 00
900 0	17 40	251 96	891 1	-27 1	-83 1	87 4	3 00	3 00	0 00
1,000 0	20 40	251 96	985 7	-37 1	-113 9	119 8	3 00	3 00	0 00
1,100 0	23 40	251 96	1,078 5	-48 6	-149 4	157 1	3 00	3 00	0 00
1,200 0	26 40	251 96	1,169 2	-61 7	-189 4	199 2	3 00	3 00	0 00
1,216 9	26 91	251 96	1,184 3	-64 0	-196 6	206 8	3 00	3 00	0 00
1,300 0	26 91	251 96	1,258 4	-75 7	-232 4	244 4	0 00	0 00	0 00
1,341 0	26 91	251 96	1,295 0	-81 4	-250 0	262 9	0 00	0 00	0 00
Ojo Alamo									
1,400 0	26 91	251 96	1,347 6	-89 7	-275 4	289 6	0 00	0 00	0 00
1,406 1	26 91	251 96	1,353 0	-90 5	-278 0	292 4	0 00	0 00	0 00
Kirtland									
1,500 0	26 91	251 96	1,436 7	-103 7	-318 4	334 9	0 00	0 00	0 00
1,600 0	26 91	251 96	1,525 9	-117 7	-361 4	380 1	0 00	0 00	0 00
1,700 0	26 91	251 96	1,615 1	-131 7	-404 5	425 4	0 00	0 00	0 00
1,800 0	26 91	251 96	1,704 3	-145 7	-447 5	470 6	0 00	0 00	0 00
1,900 0	26 91	251 96	1,793 4	-159 7	-490 5	515 9	0 00	0 00	0 00
2,000 0	26 91	251 96	1,882 6	-173 8	-533 6	561 2	0 00	0 00	0 00
2,100 0	26 91	251 96	1,971 8	-187 8	-576 6	606 4	0 00	0 00	0 00
2,200 0	26 91	251 96	2,061 0	-201 8	-619 6	651 7	0 00	0 00	0 00
2,300 0	26 91	251 96	2,150 1	-215 8	-662 7	696 9	0 00	0 00	0 00
2,317 8	26 91	251 96	2,166 0	-218 3	-670 3	705 0	0 00	0 00	0 00
Fruitland									
2,400 0	26 91	251 96	2,239 3	-229 8	-705 7	742 2	0 00	0 00	0 00
2,500 0	26 91	251 96	2,328 5	-243 8	-748 7	787 4	0 00	0 00	0 00
2,511 4	26 91	251 96	2,338 7	-245 4	-753 7	792 6	0 00	0 00	0 00
2,600 0	24 25	251 96	2,418 6	-257 3	-790 0	830 8	3 00	-3 00	0 00
2,700 0	21 25	251 96	2,510 8	-269 2	-826 8	869 5	3 00	-3 00	0 00
2,800 0	18 25	251 96	2,604 9	-279 7	-858 9	903 3	3 00	-3 00	0 00
2,900 0	15 25	251 96	2,700 6	-288 6	-886 3	932 1	3 00	-3 00	0 00
2,993 1	12 46	251 96	2,791 0	-295 5	-907 5	954 4	3 00	-3 00	0 00
Pictured Cliffs									
3,000 0	12 25	251 96	2,797 7	-296 0	-908 9	955 9	3 00	-3 00	0 00
3,100 0	9 25	251 96	2,896 0	-301 8	-926 6	974 5	3 00	-3 00	0 00
3,107 1	9 04	251 96	2,903 0	-302 1	-927 7	975 7	3 00	-3 00	0 00
Lewis									
3,200 0	6 25	251 96	2,995 0	-305 9	-939 5	988 0	3 00	-3 00	0 00
3,300 0	3 25	251 96	3,094 7	-308 5	-947 3	996 3	3 00	-3 00	0 00
3,400 0	0 25	251 96	3,194 6	-309 5	-950 2	999 4	3 00	-3 00	0 00
3,408 4	0 00	0 00	3,203 0	-309 5	-950 3	999 4	3 00	-3 00	1,291 55
Intermediate - Hudson #5M ICP									
3,500 0	0 00	0 00	3,294 6	-309 5	-950 3	999 4	0 00	0 00	0 00

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Planning Report

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Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6025 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Hudson #5M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,600 0	0 00	0 00	3,394 6	-309 5	-950 3	999.4	0 00	0 00	0 00
3,670.4	0 00	0 00	3,465 0	-309 5	-950 3	999.4	0 00	0 00	0 00
Huerfano Bentonite									
3,700 0	0 00	0 00	3,494 6	-309 5	-950 3	999.4	0 00	0 00	0 00
3,800.0	0 00	0 00	3,594 6	-309 5	-950 3	999.4	0.00	0.00	0 00
3,900 0	0 00	0 00	3,694 6	-309 5	-950.3	999.4	0 00	0 00	0.00
4,000.0	0 00	0 00	3,794 6	-309 5	-950 3	999.4	0 00	0 00	0 00
4,056.4	0 00	0 00	3,851 0	-309 5	-950 3	999.4	0 00	0 00	0 00
Chacra									
4,100 0	0 00	0 00	3,894 6	-309 5	-950 3	999.4	0 00	0 00	0.00
4,200 0	0 00	0 00	3,994.6	-309 5	-950 3	999.4	0 00	0 00	0 00
4,300 0	0 00	0 00	4,094 6	-309 5	-950 3	999.4	0 00	0 00	0 00
4,400 0	0 00	0 00	4,194 6	-309 5	-950 3	999.4	0 00	0 00	0 00
4,443.4	0 00	0 00	4,238 0	-309 5	-950 3	999.4	0 00	0 00	0 00
Upper Cliff House									
4,500 0	0 00	0 00	4,294 6	-309.5	-950 3	999.4	0.00	0.00	0 00
4,600.0	0 00	0 00	4,394 6	-309 5	-950 3	999.4	0 00	0 00	0 00
4,688.4	0 00	0 00	4,483 0	-309 5	-950 3	999.4	0 00	0 00	0 00
Mass. Cliffhouse									
4,700 0	0 00	0 00	4,494 6	-309 5	-950.3	999.4	0 00	0 00	0.00
4,790.4	0 00	0 00	4,585 0	-309 5	-950 3	999.4	0 00	0 00	0 00
Menefee									
4,800 0	0 00	0 00	4,594 6	-309 5	-950 3	999.4	0 00	0 00	0 00
4,900 0	0 00	0 00	4,694 6	-309 5	-950 3	999.4	0 00	0 00	0 00
5,000 0	0 00	0 00	4,794 6	-309 5	-950 3	999.4	0.00	0 00	0 00
5,100 0	0 00	0 00	4,894 6	-309.5	-950 3	999.4	0 00	0 00	0 00
5,200 0	0 00	0 00	4,994.6	-309 5	-950 3	999.4	0 00	0 00	0 00
5,210.4	0 00	0 00	5,005 0	-309 5	-950 3	999.4	0 00	0 00	0 00
Point Lookout									
5,300 0	0 00	0 00	5,094 6	-309 5	-950 3	999.4	0 00	0 00	0 00
5,400 0	0 00	0 00	5,194 6	-309 5	-950 3	999.4	0 00	0 00	0 00
5,500 0	0 00	0 00	5,294.6	-309 5	-950 3	999.4	0 00	0 00	0 00
5,512.4	0 00	0 00	5,307 0	-309 5	-950 3	999.4	0 00	0 00	0 00
Mancos									
5,600 0	0 00	0 00	5,394 6	-309.5	-950 3	999.4	0 00	0 00	0 00
5,700 0	0 00	0 00	5,494.6	-309 5	-950 3	999.4	0 00	0 00	0 00
5,800 0	0 00	0 00	5,594 6	-309 5	-950 3	999.4	0 00	0 00	0 00
5,900 0	0 00	0 00	5,694 6	-309 5	-950 3	999.4	0 00	0 00	0 00
6,000 0	0 00	0 00	5,794 6	-309 5	-950.3	999.4	0 00	0 00	0 00
6,100 0	0 00	0 00	5,894 6	-309 5	-950 3	999.4	0 00	0 00	0 00
6,200 0	0 00	0 00	5,994 6	-309 5	-950 3	999.4	0 00	0 00	0 00
6,300 0	0 00	0 00	6,094 6	-309.5	-950 3	999.4	0 00	0 00	0 00
6,400 0	0 00	0 00	6,194 6	-309 5	-950.3	999.4	0 00	0 00	0 00
6,496.4	0 00	0 00	6,291 0	-309 5	-950 3	999.4	0 00	0 00	0 00
Upper Gallup									
6,500 0	0 00	0 00	6,294 6	-309 5	-950 3	999.4	0 00	0 00	0 00
6,600 0	0 00	0 00	6,394 6	-309 5	-950.3	999.4	0 00	0 00	0 00
6,700 0	0.00	0 00	6,494 6	-309.5	-950 3	999.4	0 00	0 00	0.00
6,800 0	0 00	0 00	6,594 6	-309 5	-950 3	999.4	0 00	0 00	0 00
6,900 0	0 00	0 00	6,694 6	-309 5	-950 3	999.4	0 00	0 00	0 00
7,000 0	0 00	0 00	6,794 6	-309 5	-950.3	999.4	0 00	0 00	0 00
7,100 0	0 00	0 00	6,894 6	-309.5	-950 3	999.4	0.00	0 00	0 00

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Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Hudson #5M
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6025 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6025 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Hudson #5M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,200 0	0 00	0 00	6,994 6	-309 5	-950 3	999 4	0 00	0 00	0 00
7,214 4	0 00	0 00	7,009 0	-309 5	-950 3	999 4	0 00	0 00	0 00
Greenhorn									
7,266 4	0 00	0 00	7,061 0	-309 5	-950 3	999 4	0 00	0 00	0 00
Graneros									
7,300 0	0 00	0 00	7,094 6	-309 5	-950 3	999 4	0 00	0 00	0 00
7,324 4	0 00	0 00	7,119 0	-309 5	-950 3	999 4	0 00	0 00	0 00
Two Wells									
7,400 0	0 00	0 00	7,194 6	-309 5	-950 3	999 4	0 00	0 00	0 00
7,416 4	0 00	0 00	7,211 0	-309 5	-950 3	999 4	0 00	0 00	0 00
Paguate									
7,442 4	0 00	0 00	7,237 0	-309 5	-950 3	999 4	0 00	0 00	0 00
Upper Cubero									
7,451 4	0 00	0 00	7,246 0	-309 5	-950 3	999 4	0 00	0 00	0 00
Lower Cubero									
7,500 0	0 00	0 00	7,294 6	-309 5	-950 3	999 4	0 00	0 00	0 00
7,532 4	0 00	0 00	7,327 0	-309 5	-950 3	999 4	0 00	0 00	0 00
Encinal - Production - Hudson #5M PCP									

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									
Hudson #5M ICP	0 00	0 00	3,203 0	-309 5	-950 3	2,147,771 53	477,002 16	36° 54' 8 881 N	107° 54' 43 159 W
- plan hits target center									
- Circle (radius 50 0)									
Hudson #5M PCP	0 00	0 00	7,327 0	-309 5	-950 3	2,147,771 49	477,002 12	36° 54' 8 881 N	107° 54' 43 160 W
- plan hits target center									
- Circle (radius 50 0)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
230 0	230 0	Surface	9-5/8	12-1/4
3,408 4	3,203 0	Intermediate	7	8-3/4
7,532 4	7,327 0	Production	4-1/2	6-1/4

ConocoPhillips or its affiliates

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Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6025 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Hudson #5M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,670.4	3,465.0	Huerfanto Bentonite		0.00		
7,266.4	7,061.0	Graneros		0.00		
4,688.4	4,483.0	Mass Cliffhouse		0.00		
6,496.4	6,291.0	Upper Gallup		0.00		
1,406.1	1,353.0	Kirtland		0.00		
2,317.8	2,166.0	Fruitland		0.00		
5,512.4	5,307.0	Mancos		0.00		
7,442.4	7,237.0	Upper Cubero		0.00		
2,993.1	2,791.0	Pictured Cliffs		0.00		
3,107.1	2,903.0	Lewis		0.00		
4,790.4	4,585.0	Menefee		0.00		
5,210.4	5,005.0	Point Lookout		0.00		
4,056.4	3,851.0	Chacra		0.00		
7,451.4	7,246.0	Lower Cubero		0.00		
1,341.0	1,295.0	Ojo Alamo		0.00		
7,214.4	7,009.0	Greenhorn		0.00		
7,532.4	7,327.0	Encinal		0.00		
7,416.4	7,211.0	Paguate		0.00		
7,324.4	7,119.0	Two Wells		0.00		
4,443.4	4,238.0	Upper Cliff House		0.00		

REFERENCE INFORMATION

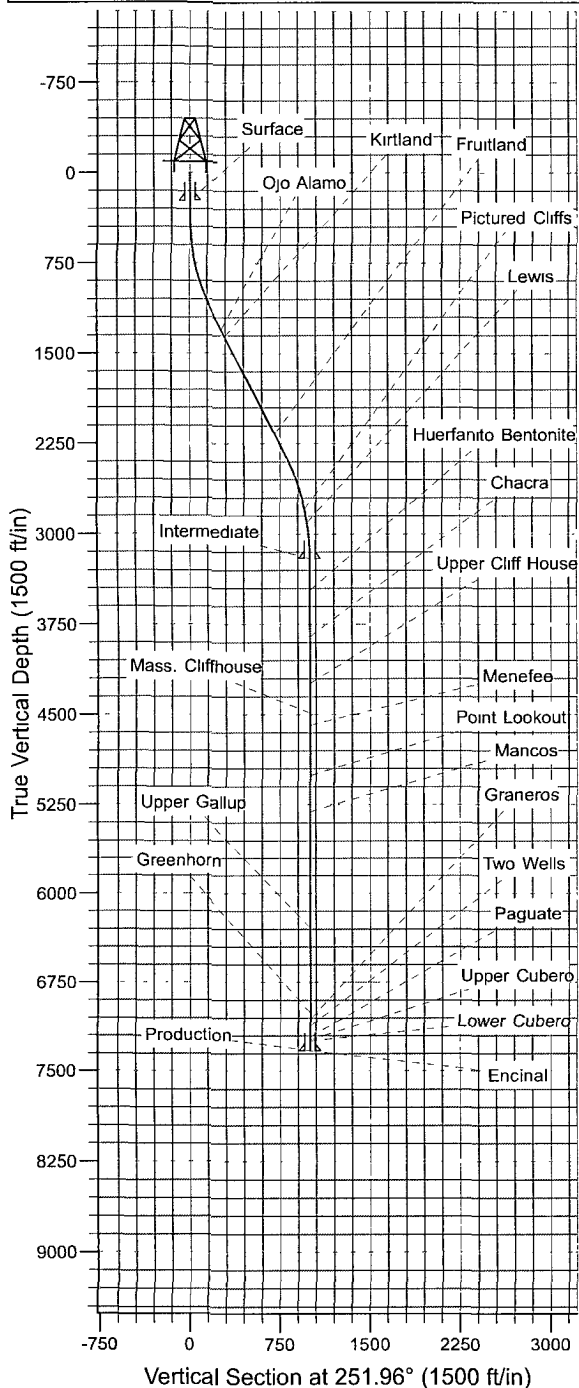
RKB @ 6025.0ft (Original Well Elev)
Ground Elevation 6010.0
Reference Lat: 36° 54' 11.941 N
Reference Long: 107° 54' 31.460 W

Project: San Juan Basin - New Mexico Wells
Site: Other Named Wells
Well: Hudson #5M
Wellbore: Original Hole
Design: Plan #1



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1216.9	26.91	251.96	1184.3	-64.0	-196.6	3.00	251.96	206.8	
4	2511.4	26.91	251.96	2338.7	-245.4	-753.7	0.00	0.00	792.6	
5	3408.4	0.00	0.00	3203.0	-309.5	-950.3	3.00	180.00	999.4	Hudson #5M ICP
6	7532.4	0.00	0.00	7327.0	-309.5	-950.3	0.00	0.00	999.4	Hudson #5M PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1295.0	1341.0	Ojo Alamo
1353.0	1406.1	Kirtland
2166.0	2317.8	Fruitland
2791.0	2993.1	Pictured Cliffs
2903.0	3107.1	Lewis
3465.0	3670.4	Huerfano Bentonite
3851.0	4056.4	Chacra
4238.0	4443.4	Upper Cliff House
4483.0	4688.4	Mass. Cliffhouse
4585.0	4790.4	Menefee
5005.0	5210.4	Point Lookout
5307.0	5512.4	Mancos
6291.0	6496.4	Upper Gallup
7009.0	7214.4	Graneros
7061.0	7266.4	Greenhorn
7119.0	7324.4	Two Wells
7211.0	7416.4	Paguate
7237.0	7442.4	Upper Cubero
7246.0	7451.4	Lower Cubero
7327.0	7532.4	Encinal

