

Scientific Drilling

Job Number: 33D0807719
 Company: ConocoPhillips
 Lease/Well: SJ 29-5 #34M
 Location: SAN JUAN BASIN
 Rig Name: H&P 282
 RKB: ☐
 G.L. or M.S.L.: ☐

State/Country: New Mexico
 Declination: 10.22
 Grid: 0
 File name: E:\WINSERVE\34M.SVY
 Date/Time: 23-Aug-07 / 05:56
 Curve Name: ☐

30-089-30162

Surface 1170/S 2045/E
 Loc. @ 1924' MD 1056/S 2303/E

Scientific Drilling

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane .00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
Distance FT	Direction Deg								
TIE-IN									
393.00	1.33	265.10	392.96	-.40	-4.54	-.40	4.56	264.96	.00
486.00	2.45	261.33	485.91	-.79	-7.58	-.79	7.62	264.04	1.21
578.00	3.44	256.24	577.79	-1.74	-12.21	-1.74	12.33	261.86	1.11
671.00	5.18	251.27	670.52	-3.76	-18.89	-3.76	19.26	258.75	1.91
792.00	8.09	248.46	790.70	-8.64	-31.99	-8.64	33.13	254.89	2.42
882.00	10.59	247.78	879.50	-14.09	-45.54	-14.09	47.67	252.81	2.78
972.00	13.24	245.42	967.55	-21.51	-62.57	-21.51	66.16	251.03	2.99
1063.00	15.86	244.77	1055.62	-31.14	-83.30	-31.14	88.93	249.50	2.88
1153.00	18.32	243.95	1141.64	-42.60	-107.13	-42.60	115.29	248.32	2.75
1243.00	16.25	242.75	1227.57	-54.58	-131.04	-54.58	141.95	247.39	2.33
1334.00	14.99	242.03	1315.21	-65.93	-152.75	-65.93	166.37	246.65	1.40
1424.00	13.77	241.81	1402.39	-76.45	-172.47	-76.45	188.66	246.10	1.36
1563.00	12.22	240.88	1537.83	-91.42	-199.91	-91.42	219.82	245.42	1.13
1653.00	11.34	243.39	1625.93	-100.02	-216.14	-100.02	238.16	245.17	1.13
1743.00	10.68	246.14	1714.27	-107.36	-231.68	-107.36	255.34	245.14	.94
1834.00	8.40	258.65	1804.02	-112.08	-245.91	-112.08	270.24	245.50	3.37
1924.00	6.80	262.35	1893.23	-114.08	-257.64	-114.08	281.76	246.12	1.86

8/28/07

Scientific Drilling

SDI Job #:	33D0807719	Report Time:	3:00	3-1-2
COMPANY:	ConocoPhillips	API JOB #		
LOCATION:	SEC 34T/29X1-R5W	WORK ORDER#		
RIG NAME:	H&P#282	FIELD:	SAN JUAN BASIN	
STATE:	NEW MEXICO	Sec-Twn-Rng:		
COUNTY:	RIO ARABIA	AFE# & District		
WELL NAME:	SJ29-5#34M			

From: Friday, August 10, 2007 at 0000 to Thursday, August 23, 2007 at 2400

DRILLING SUMMARY					Drilling Parameters							
Start Depth	1676.00	Rotary Hours	1.92	WOB	0	Pick UP	110	Slack Off	70	SPM		
End Depth	1992.00	Circulating Hours	0 00	RAB	76	SPP	1425	FlowRate	0 - 475	225		
Total Drilled:	316.00	Avg. Total ROP:	75.84	Mud Data								
Total Rotary Drilled:	256.00	Avg. Rotary ROP:	133.57	Type				PV	0	SOLID	0	
Total Drilled Sliding:	60.00	Avg. Slide ROP:	26.67	Weight	0	GAS	0	YP	0	BHT°	0	
Slide Hours	2.25	Percent Rotary:	81.01	Viscosity	0	SAND	0	PH	0	Flow T°	0	
Below Rotary Hrs.	4.50	Percent Slide:	18.99	Chlorides	0	WL	0	Oil %		0		
PERSONNEL				Casing				BHA				
Lead Directional :	MARK McCORMICK			Size	Lb/ft	Set Depth		BHA # 1:PDC, 3.3 STAGE 7:8, PONY MONEL, UBHO, MONEL D/C, GAP SUB, MONEL D/C, CUTTER SUB, N-MAG FLEX D/C,				
Second Directional :	SAM KELLY			25	0	0						
MWD Operator1	CHRIS FLOWER											
MWD Operator2	SAM KELLY											
Directional Company:	SDI			Signature:								
Geologist:												
Company Man:	JIMMY							Daily Cost		507,000.00		
Incl. In:	12.22	Azm. In:	240.88	Incl. Out:	0	Azm. Out:	0	Cummulative Cost:		107,000.00		

GENERAL COMMENT

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
23-Aug-07	00:00	00:05	0.08	1676	1713	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
23-Aug-07	00:05	00:10	0.08	1713	1713	Survey & Conn.	Survey & Conn.
23-Aug-07	00:10	00:25	0.25	1713	1721	Sliding	Sliding - (WOB:0;GPM :0;TFO:180)
23-Aug-07	00:25	00:45	0.33	1721	1758	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
23-Aug-07	00:45	01:00	0.25	1758	1766	Sliding	Sliding - (WOB:0;GPM :0;TFO:180)
23-Aug-07	01:00	01:15	0.25	1766	1803	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
23-Aug-07	01:15	01:20	0.08	1803	1803	Survey & Conn.	Survey & Conn.
23-Aug-07	01:20	01:50	0.50	1803	1813	Sliding	Sliding - (WOB:0;GPM :0;TFO:180)
23-Aug-07	01:50	02:05	0.25	1813	1849	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
23-Aug-07	02:05	02:20	0.25	1849	1859	Sliding	Sliding - (WOB:0;GPM :0;TFO:180)
23-Aug-07	02:20	02:30	0.17	1859	1894	Drilling	Drilling - (WOB:0;GPM :0;RPM:0)
23-Aug-07	02:30	02:35	0.08	1894	1894	Survey & Conn.	Survey & Conn.
23-Aug-07	02:35	02:55	0.33	1894	1902	Sliding	Sliding - (WOB:0;GPM :0;TFO:180)
23-Aug-07	02:55	03:20	0.42	1902	1939	Drilling	Drilling - (WOB:10;GPM :0;RPM:0)
23-Aug-07	03:20	03:35	0.25	1939	1947	Sliding	Sliding - (WOB:0;GPM :0;TFO:180)
23-Aug-07	03:35	04:00	0.42	1947	1984	Drilling	Drilling - (WOB:10;GPM :0;RPM:0)
23-Aug-07	04:00	04:05	0.08	1984	1984	Survey & Conn.	Survey & Conn.

Date	Start Time	End Time	Hours	Start Depth	End Depth	Activity Code	COMMENT
23-Aug-07	04:05	04:30	0.42	1984	1992	Sliding	Sliding - (WOB:0;GPM :0;TFO:180)