

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUL 13 1998

FORM APPROVED
Budget Bureau No 1004-0135
Expires March 31, 1993

5 Lease Designation and Serial No
SF 076554

6 If Indian, Allottee or Tribe Name

7 If Unit or CA, Agreement Designation

8 Well Name and No

Hamilton #1A

9 API Well No

30-045-21644

10 Field and Pool, or Exploratory Area

Blanco Mesaverde

11 County or Parish, State

San Juan, NM

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1 Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2 Name of Operator

CONOCO INC.

3 Address and Telephone No

10 DESTA DR. STE. 100W, MIDLAND, TX. 79705-4500 (915) 686-5424

4 Location of Well (Footage, Sec., T. R. M. or Survey Description)

Section 30, T-32-N, R-10-W, J
1650' FSL & 1650' FEL

CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Repon
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☒ Altering Casing
☐ Other Sidetrack
- ☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracrunng
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Repon result of multiple completion on Wdl Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical cepths for all markers and zones pertinent to this work.)*

It is proposed to sidetrack this well using the attached procedure.

RECEIVED
JUL 24 1998
OIL CON. DIV.
DIST. 3

14 I hereby certify that the foregoing is true and correct.

Signed Kay Maddox

Title Regulatory Agent

Date July 10, 1998

(This space for Federal or State office use)

Approved by /s/ Duane W. Spencer

Title

Date JUL 21 1998

Conditions of approval if any

BLM(6), NMOCD(1), SHEAR, PONCA, COST ASST, FILE ROOM

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

*See Instruction on Reverse Side

NMOCD

HAMILTON 1A SIDETRACK PROCEDURE

API # 30-45-21644

April, 1998

Current status: MV producer (approx 150 MCF/D), w/ Fruitland perms squeezed off.

Objective: Test 7" casing/run CBL to ensure integrity. Plug back MV, set CIBP/whipstock on TOL (2992'), and mill 7" and drill sidetrack (approx 780' ENE bottom hole displacement extension, w/ max angle of 28 degrees). Total measured depth of 5595' (equiv vertical of 5430'). Set 4 1/2", 11.60#, J-55 casing to surface, cementing up through window (allowing upper 4 1/2" casing to be backed-off after completion). Stimulate & complete.

Attachments: Wellview wellbore diagram and group well history information; Sperry Sun directional program;

Location: 1650' FSL, 1650' FEL, T 32 N, R 10 W, Sec 30, San Juan County, NM
Drilled: 1975

KB: 6104'
Grd: 6091'

CASING: 10 3/4", 32# @ 157'. 125 sxs to surface.
7", 23 # @ 3176'. 250 sxs to surface (in 8 3/4" hole).
NOTE: FC sqzd w/ 250 sxs (2608'-30') 2000# test
Csg leak sqzd w/ 200 sxs (2591'/2642'). 2000# test
4 1/2" liner, 10.5#, from 2992'-5418'. 300 sxs, to liner top (6" hole)

TUBING: 2 3/8", 4.7#, J-55, set @ 5201'

CURRENT PERFS: 4432'-5303' OA ---- MV
(sqzd perms - 2608'-2630' ---FC)

TOPS (Vertical): PC---3239'; MV CLH---4732'; MV PLO---5140';

TOPS (MD, Proposed) MC CLH---4808', MV PLO---5268'

PREPARATION WORK / DAYLIGHT RIG (A Plus wellsvc)

NOTES: (Stipulations from standard BLM Sundry)

*Standard stipulations, including these :

- 1) Pits will be fenced during work-over operations.
- 2) All disturbances will be kept on existing pad.
- 3) Empty and reclaim pit after work completed.

1. Check location to ensure adequate size for sidetrack rig operations. If pad extension necessary, obtain necessary approvals from BLM, etc.
2. Install and test anchors. MIRU.
3. Blow down well & kill if necessary. NDWH. NUBOPS.
4. TOOH w/ tbg. Visually inspect (laydown if necessary). TIH w/ bit & scraper and cleanout to 4450'. TOOH.
5. RIH & set cement retainer @ 4400'. Pressure test tbg to 2000#. Pressure test retainer, liner top, and 7" to 1000 psi. (If pressure test unsuccessful, isolate origin of leak, and fix).
6. RU BlueJet wireline. RIH w/ CBL, GR, CCL and log in 7" from TOL @ 2992' for min interval. Pressure up if necessary. POOH. Fax log to attn: Craig Moody @ 915-686-6112.

7. Perform any necessary remedial cementing (based on bond log – ensure window properly cemented), based on Engr recommendations. NOTE: Proposed window @ TOL.
8. TIH w/ workstring and set into 4 ½" cement retainer set @ 4400'.. Proceed to pump 200 sxs Class B neat cement through retainer into MV interval. Sting out, and spot 5 sxs on top of retainer. Pull up and also spot balanced cement plug from 3100'-3250'. POOH. RIH w/ 7" CIBP on wireline and set @ TOL @ approx 2992' +/-, approximately 4' above collar (to ensure whipstock/window in open casing).
9. Pressure test plug/ casing to 1000 psi.
10. RD. Prepared location for drilling rig.

DRILLING (Big A #42) ----

Goal: 6 days

1. MIRU. RIH w/ whipstock & first mill, and set on CIBP.
2. Mill out casing window, and drill 1'-3' of open hole. POOH.
3. RIH w/ 6" bit, 3 point reamer, drill collars, and drill pipe & drill preliminary sidetrack,.
4. RIH w/ bit, air motor, float, non-magnetic drilling collars (MWD inside collars), drilling collars, drill pipe. (Note: no stabilizer used). 1 ½ degree bent housing.
5. Proceed to drill w/ mist (18 gpm min), w/ EM tool survey every 30' (every connection). Geolograph and auto driller to be used. (Note: move vent to end of blooey line)
6. Note relative flare on connections (pitot tube on choke line for measurement). Note flow tests using pitot tube if dramatic increase in flare noted.
7. After reaching TD (5595' measured depth), pull up in casing and perform final flow test, running BlueJet GR/temp/caliper open hole log during final flow period to identify location of specific crack features.

CASING ----

NOTE: Minimize fluid on formation during this operation! Also, notify BLM prior to cementing.

1. IF excellent flow tests obtained, above 4 MMCF/D, indicating highly fractured MV encountered, 4 ½" , 11.60#, J-55 casing to be run to TD (minimal # of centralizers), w/ DUAL ECP's just above identified crack feature (seat to be selected based on caliper/GR log), w/ diverting tool above top ECP). After casing run, set plug and inflate ECP's using workstring (using 2% filtered KCL water). Test. If OK, proceed to cement above ECP to just above window.
2. If flow test less than 4 MMCF/D, proceed to run 4 1/2", 11.6#, J-55 casing WITHOUT ECP's to TD. Circulate light slurry cement w/ fluid loss additive up across window.

DS Slurry design to be following (assuming no ECP's), 450 cu ft, 40% excess:
 330 sxs 50/50 poz class G + 2% gel . Yield = 1.37 , TT = 3:45, FW = 0.5 cc, 24 hr =
 2300 psi, .

COMPLETION ---

1. RU completion rig, and RIH w/ 4 ½" bit and scraper and cleanout to PBTD.
2. Run GR/CBL/CCL from TD to TOC (if entire string cemented, run TDT also).
3. Evacuate csg, and perforate MV @ crack features, based on temp log (MINIMIZE FLUID ON FORMATION!!), or, if entire string cemented, proceed to acidize/breakdown, and frac stimulate as per attached BJ procedure.
4. Clean out if necessary using gas or air; unload well; land 2 3/8", 4.7#, J-55 w/ SN @ mid-perf. and put to test/ production.

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
 Supersedes C-128
 Effective 1-1-55

All distances must be from the outer boundaries of the Section.

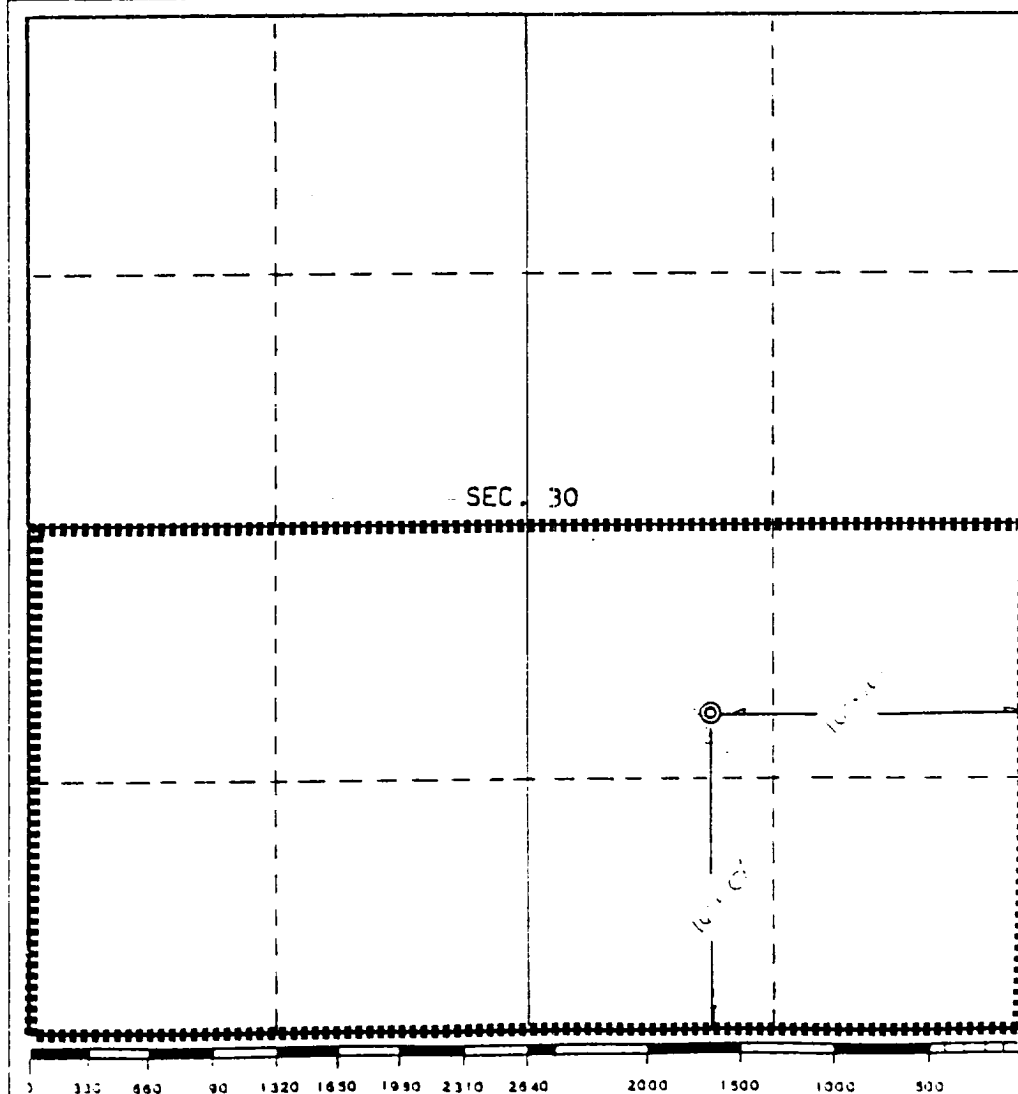
Operator Mesa Petroleum Co.		Lease Hamilton		Well No. 1-A
Tract Letter J	Section 30	Township 32 North	Range 10 West	County San Juan
Annual Postage Location of Well: 1650 feet from the South line and 1650 feet from the East line				
Ground Level Elev. 6091	Producing Formation mesaverde	Pool BLANCO mesaverde	Dedicated Acreage: 300 Acres	

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name _____

Position _____

Company _____

Date _____

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed _____

December 14, 1974

Registered Professional Engineer
 and Oil Well Surveyor

E. V. Echonhawk

3602
E.V. Echonhawk LS

HAMILTON 1A (GMH 10/22/97)

HAMILTON 1A (GMH 10/22/97)

API Code	300452164400	Field Code	676380663
TD	5423.0 ftKB	Basin	SAN JUAN BASIN
PBTD	5348.0 ftKB	Basin Code	580
State	New Mexico	Permit	24-Dec-74
County	SAN JUAN	Spud	17-Jan-75
District	San Juan O U	Finish Drl	03-Feb-75
Permit No.		Completion	09-Apr-75
TD Measured	5423 ftKB	Abandon	
Reservoir	Mesaverde		
Field	BLANCO MV		

Location

Meridian	NM	Top Latitude	36.95348
Township	32N	Top Longitude	107.9198
Range	10W	Top NS Distance	1650.0 ft S
Section	30	Top EW Distance	1650.0 ft E
Quarter	SE NW SE	Bottom Latitude	0
		Bottom Longitude	0
		Btm NS Distance	0.0 ft
		Btm EW Distance	0.0 ft

Elevations

KB	6104.0 ft	Cas Flng	0.0 ft
Grd	6091.0 ft	Tub Head	0.0 ft
KB-Grd	13.0 ft		

Bore Hole Data

	Depth (ftKB)	Size (in)
	166.0	13.7500
	3180.0	8.7500
	5423.0	6.2500

Casing String - Surface Casing

Item (in)	Btm (ftKB)	Jnts	ID	Wt	Grd	Thd	Comments
10.7500 in Casing	157.0		10.1900	32.75			

Casing String - Intermediate Casing

Item (in)	Btm (ftKB)	Jnts	ID	Wt	Grd	Thd	Comments
7.0000 in Casing	3176.0	86	6.3700	23.00			

Casing String - Production Liner

Item (in)	Btm (ftKB)	Jnts	ID	Wt	Grd	Thd	Comments
4.5000 in Casing	5418.0	61	4.0500	10.50	CW-55		Burns Liner Hanger on top.

Casing Cement

Casing String	Top (ftKB)	Amount (sx)	Comments
Surface Casing	0.0	125	Cement circ
Intermediate Casing	1900.0	250	TOC by TS
Production Liner	2992.0	300	Cement circ

Other (plugs, equip., etc.) - Plug Backs

Date	Item	Int (ftKB)	Comments
11-Feb-75	Cement Plug	5348.0 - 5418.0	

Perforations

Date	Int	Shots (/ft)	Type	Comments
12-Feb-75	5146.0 - 5303.0	1.0		36-59" EHD @ 5146-49, 5153-56, 5176-82, 5204-14, 5241-44, 5253-56, 5259-61, 5264, 69, 82, 5303 in 250 G 10% MSA acid.
13-Feb-75	4740.0 - 4796.0	1.0		@ 4740-44, 4754-56, 4760-62, 4772-74, 4786-96.
14-Feb-75	4432.0 - 4440.0	1.0		
14-Feb-75	4536.0 - 4544.0	1.0		
14-Feb-75	4652.0 - 4679.0	1.0		@ 4652-60, 4671-79.
19-Feb-75	2615.0 - 2630.0	1.0		Assume 1 spf, .5" EHD, in 250 G 10% MSA acid.
21-Feb-75	2608.0 - 2628.0	1.0		@ 2608-12, 2616-28, 4 spf @ 2612-16.
23-Sep-96	4910.0 - 5100.0	0.5		1s/2f, 27-.38" EHD @ 4910-16, 4968-74, 4996-5002, 5036, 5044-48, 5098-5100.

Stimulations & Treatments

Date	Type	Zone	Int	Fluid	Comments
12-Feb-75	Acid Squeeze	MV (PLO)	5146.0 - 5303.0	7 1/2% HCl	3000 G w/ 40 BS, no BO
13-Feb-75	Fracture	MV (CH)	4740.0 - 4796.0	Water	Spot 250 G 10% MSA & BD. Pump 750 G 7 1/2% HCl to obtain frac rate. Frac w/ 60,500 G w/ 48,000# 20/40 in 2 stgs. Drop 10 BS in 750 G 7 1/2% HCl. TP=900-1250# @ 30 bpm, ISIP=0#.
13-Feb-75	Fracture	MV (PLO)	5146.0 - 5303.0	Water	100,000 G w/ 81,000# 20/40 in 3 stgs. Drop 12 BS btwn stgs 1 & @, 12 BS & 300# benzoic acid flakes btwn 2 & 3, BO. TP=250-750-950# @ 40 bpm, ISIP=0#.
14-Feb-75	Fracture		4432.0 - 4679.0	Water	48,000 G w/ 32,000# 20/40 in 4 stgs. Drop 8 BS btwn stgs. TP=50-50-100-350# @ 20 bpm, ISIP=0#.
14-Feb-75	Acid Squeeze		4432.0 - 4679.0	7 1/2% HCl	BD each set of perms w/ 500 G w/ pkr & BP.

HAMILTON 1A (GMH 10/22/97)

Stimulations & Treatments (con't)

Date	Type	Zone	Int	Fluid	Comments
19-Feb-75	Acid Squeeze	Fruitland	2615.0 - 2630.0	7 1/2% HCl	BD @ 2700#, pump 500 G @ 10 bpm & 2700# also 18 bpm & 2900#. Bled dn, no flow back.
20-Feb-75	Fracture	Fruitland	2615.0 - 2630.0	Water	Spot 250 G 15% HCl, soak for 75 mins. Frac w/ 16,000 G w/ 7,500# 20/40 @ 22 bpm dn to 10 bpm, screen off. Temp survey showed fluid entry 2636-64. GIH w/ tbg & pkr, pump slickwater @ 3 bpm & 3300#, drop 75# BAF, pump 250 G 15% HCl @ 3 bpm & 3300#-3100#. Temp survey showed same fluid entry. Flow water overnite, swab next day 22 BWPH to a steady 10 BWPH entry. Analysis indicated formation water.
21-Feb-75	Cement Squeeze	Fruitland	2615.0 - 2630.0	Cement	Sqz below a pkr w/ 150 sx to 3000#. DO, swab, 300' fluid entry in 30 mins. Pump 1000 G 15% HCl @ 12 bpm & 3400#, ISIP=1300#. Pump dn 7" csg @ 15-16 bpm @ 2400#. ISIP=1600#. Set tbg & pkr, recovered 900' of GCW on 4 swab runs. Prepare to perf.
25-Feb-75	Fracture	Fruitland	2608.0 - 2628.0	Water	32,970 G w/ 25,220# sand @ 11 bpm & 3000#, ISIP=1600#. Temp survey showed porosity intervals 2543-2620 mwere fraced.
01-Mar-75	Cement Squeeze	Fruitland	2608.0 - 2630.0	Cement	Sqz Fruitland perms below a pkr w/ 250 sx. DO cement.
05-Mar-75	Cement Squeeze	Production Casing	2580.0 - 2650.0	Cement	Perf 4 spt @ 2591 & 2642. Sqz w/ 200 sx below a pkr to 2200#. DO, test, slight bleed off. Interval re-sqzd on 3/9, no details, DO, test to 2000#, OK. Sqzd interval assumed.
13-Mar-75	Cement Squeeze	Production Casing	2500.0 - 2614.0	Cement	Perf 3 holes @ 2614' w/ HOWCO abrasijet (3/11). Spot 250 G acid, no bleed off. Spot 250 G again, displaced 3 bbls in 1 hr @ 2500#. Increased pressure to 3000# & communicated uphole. Set pkr @ 2560', pump in @ 1 bpm & 2900#. Sqz below pkr w/ 50 sx, DO, sqz did not hold. Spot 25 sx open ended & disp 2 bbls cement in 1 hr @ 2500#. DO, test to 2000#, OK. Assume sqzd interval
23-Sep-96	Acid Squeeze	MV (MEN)	4910.0 - 5100.0	15% HCl	Spot 250 G, BD @ 1500#. Pump 1500 G w/ 41 BS, good BA, BO to 3000#. ATP=1500# @ 4 bpm.
24-Sep-96	Fracture	MV (MEN)	4910.0 - 5100.0	50Q Foam	2000 G gel & 13,000 G foam pad followed by 38,350 G foam w/ 90,000# 20/40 Brady. ATP=2300# @ 30 bpm, ISIP=780#.

Tubing String - Primary Tubing

Item (in)	Top (ftKB)	Len (ft)	Jnts	ID (in)	Wt	Grd	Thd	Comments
2.3740 in Tubing	0.0	360.0	11	1.9961	4.70		8rd EUE	
2.3740 in Tubing	360.0	4808.0	146	1.9961	4.60		10rd NUE	
2.3740 in F Nipple	5168.0	1.0		1.7800	0.00		10rd NUE	
2.3740 in Tubing	5169.0	32.0	1	1.9961	4.60		10rd NUE	Notched Collar on btm.

Completions & Workovers

Date	Reason for Workover	Reason for Failure	Summary
23-Sep-96	Add Menefee Pay	Add Perforations	Add Menefee Pay - Perf Menefee w/ 27 holes 4910-5100' (OA). Acidize, frac & run 2 3/8" tbg to 5201'.

Formation/Horizon Tops

Top (ftKB)	Formation
3239.0	Pictured Cliffs
3666.0	Fruitland
4555.0	Ojo Alamo
4732.0	Cliff House
4806.0	Menefee
5140.0	Point Lookout

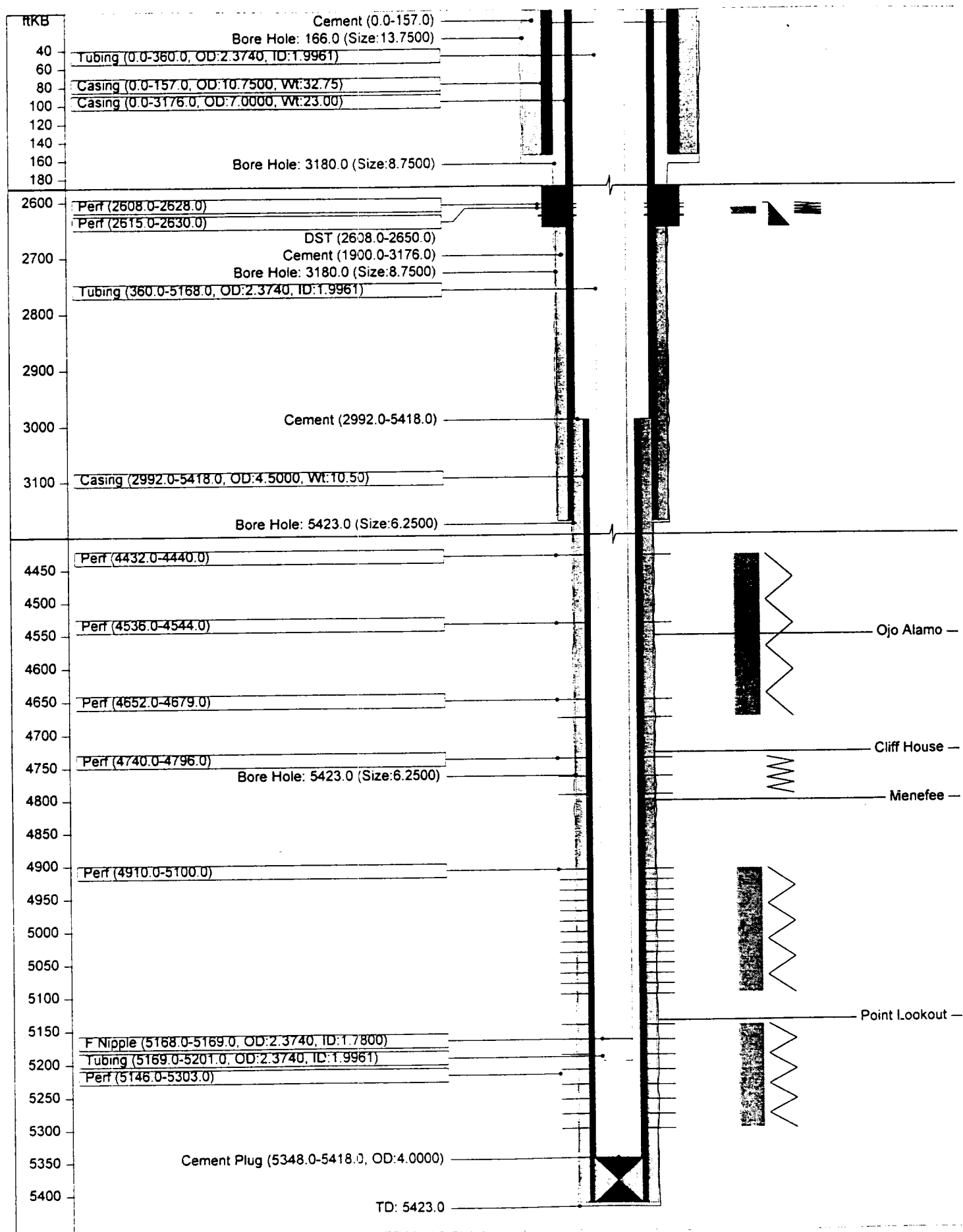
DST's

Date	Int (ftKB)	Formation
24-Jan-75	2608.0 - 2650.0	Fruitland

Logs Run

Date	Type	Int	Company	Comments
29-Jan-75	IND	157.0 - 3176.0	Schlumberger	
29-Jan-75	DEN/NEU	1500.0 - 3182.0	Schlumberger	
03-Feb-75	DEN	3180.0 - 5420.0	Schlumberger	
03-Feb-75	IND	3180.0 - 5415.0	Schlumberger	
11-Feb-75	GR-C	4400.0 - 5347.0	Gearhart	
19-Feb-75	GR-C	0.0 - 0.0	Gearhart	Not in Midland files
23-Sep-96	GR-C	4800.0 - 5151.0	Blue Jet	

HAMILTON 1A (GMH 10/22/97)



Conoco

**New Mexico
San Juan County
Sec 30-T32N-R10W
Alt. Hamilton 1A**

PROPOSAL REPORT

30 March, 1998

sperry-sun
DRILLING SERVICES
A DIVISION OF SERVICE INDUSTRIES, INC.

Proposal Ref: pro2501

Sperry-Sun Drilling Services

Proposal Report for Alt. Hamilton 1A



Conoco
New Mexico

San Juan County
Sec 30-T32N-R10W

Measured Depth (ft)	Incl.	Azim.	Vertical Depth (ft)	Northings (ft)	Eastings (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Toolface Azimuth
0.00	0.000	0.000	0.00	0.00 N	0.00 E	0.00		
500.00	0.000	0.000	500.00	0.00 N	0.00 E	0.00		
1000.00	0.000	0.000	1000.00	0.00 N	0.00 E	0.00		
1500.00	0.000	0.000	1500.00	0.00 N	0.00 E	0.00		
2000.00	0.000	0.000	2000.00	0.00 N	0.00 E	0.00		
2500.00	0.000	0.000	2500.00	0.00 N	0.00 E	0.00		
2900.00	0.000	0.000	2900.00	0.00 N	0.00 E	0.00		
3000.00	0.904	66.865	3000.00	0.31 N	0.73 E	0.79	0.904	66.865
3100.00	1.809	66.865	3099.97	1.24 N	2.90 E	3.16	0.904	0.000
3200.00	2.713	66.865	3199.89	2.79 N	6.53 E	7.10	0.904	0.000
3300.00	3.618	66.865	3299.73	4.96 N	11.61 E	12.62	0.904	0.000
3400.00	4.522	66.865	3399.48	7.75 N	18.14 E	19.72	0.904	0.000
3500.00	5.427	66.865	3499.10	11.16 N	26.11 E	28.39	0.904	0.000
3600.00	6.331	66.865	3598.58	15.18 N	35.53 E	38.64	0.904	0.000
3700.00	7.236	66.865	3697.88	19.82 N	46.39 E	50.45	0.904	0.000
3800.00	8.140	66.865	3796.98	25.08 N	58.69 E	63.83	0.904	0.000
3900.00	9.045	66.865	3895.85	30.95 N	72.43 E	78.77	0.904	0.000
4000.00	9.949	66.865	3994.48	37.43 N	87.61 E	95.27	0.904	0.000
4005.60	10.000	66.865	4000.00	37.81 N	88.50 E	96.24	0.904	0.000
4100.00	14.720	66.865	4092.18	45.75 N	107.07 E	116.44	5.000	0.000
4200.00	19.720	66.865	4187.67	57.38 N	134.29 E	146.03	5.000	0.000
4300.00	24.720	66.865	4280.21	72.23 N	169.05 E	183.84	5.000	0.000
4355.30	27.485	66.865	4329.87	81.79 N	191.42 E	208.16	5.000	0.000
4500.00	27.485	66.865	4458.24	108.03 N	252.83 E	274.95		
5000.00	27.485	66.865	4901.80	198.69 N	465.03 E	505.70		
5500.00	27.485	66.865	5345.37	289.35 N	677.24 E	736.46		
5595.40	27.485	66.865	5430.00	306.65 N	717.72 E	780.49		

All data is in feet unless otherwise stated. Directions and coordinates are relative to True North.
Vertical depths are relative to Well. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100ft.

Vertical Section is from Well and calculated along an Azimuth of 66.865° (True).

Based upon Minimum Curvature type calculations, at a Measured Depth of 5595.40ft.,
The Bottom Hole Displacement is 780.49ft., in the Direction of 66.865° (True).

Continued...

Sperry-Sun Drilling Services

Proposal Report for Alt. Hamilton 1A



Conoco
New Mexico

San Juan County
Sec 30-T32N-R10W

Formation Tops

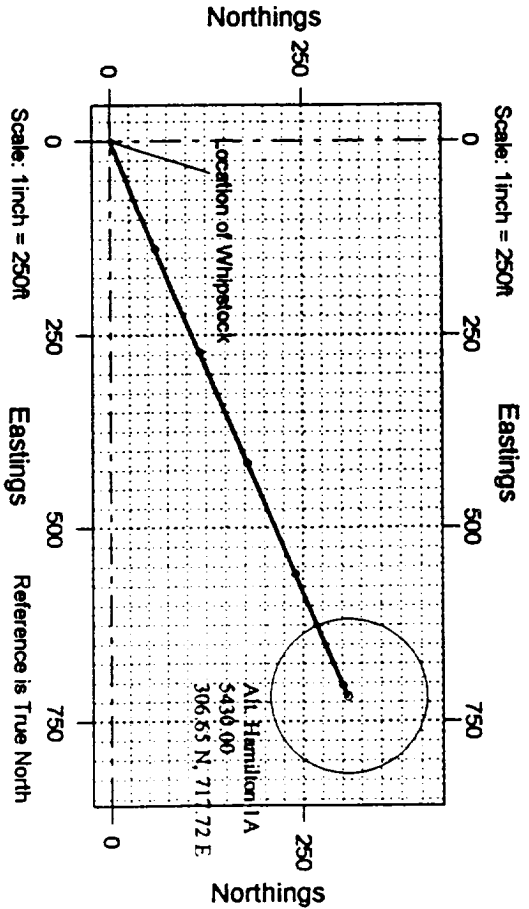
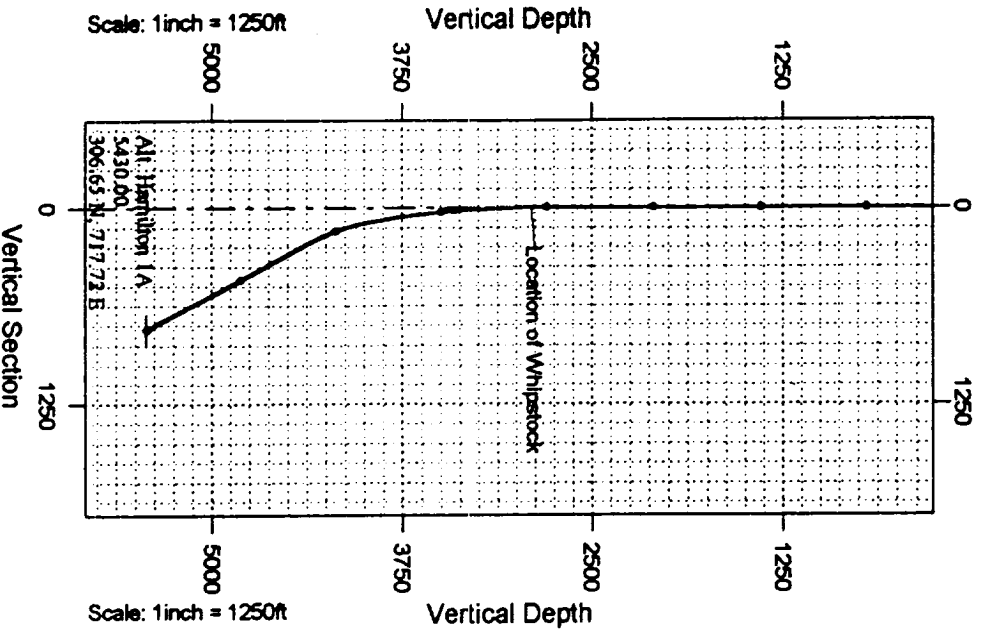
Measured Depth (ft)	Vertical Depth (ft)	Sub-Sea Depth (ft)	Northings (ft)	Eastings (ft)	Formation Name
3239.16	3239.00	3239.00	3.57 N	8.35 E	Pictured Cliffs
4808.59	4732.00	4732.00	163.98 N	383.80 E	Cliff House
4892.01	4808.00	4808.00	179.11 N	419.20 E	Menefee
5288.50	5140.00	5140.00	247.38 N	578.99 E	Point Lookout

Targets associated with this wellpath

Target Name	Target Entry Coordinates			Target Shape	Target Type
	TVD (ft)	Northings (ft)	Eastings (ft)		
Alt. Hamilton 1A	5430.00	306.65 N	717.72 E	Circle	

New Mexico
San Juan County
Sec 30-T32N-R10W
Hamilton 1A

Section Azimuth: 66.865° (True North)
 Vertical Section



Prepared:

Checked:

Approved: