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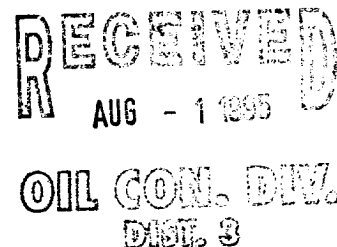


OFF: (505) 325-8786

LAB: (505) 325-5667

July 31, 1995

Mr. Frank T. Chavez, District Supervisor
State of New Mexico Oil Conservation Division
Aztec District Office
1000 Rio Brazos Road
Aztec, NM 87410



RE: REQUEST FOR ADMINISTRATIVE APPROVAL TO INTENTIONALLY
DEVIATE A WELL FROM VERTICAL

Dear Mr. Chavez:

On behalf of D. J. Simmons Company, Ltd., I do hereby submit this letter of request to intentionally deviate the Simmons E-1 from the vertical by sidetracking. Said well is located in Section 26, T-29-N, R-9-W, San Juan County, New Mexico. The surface hole location is 790' FNL & 1550' FEL. The bottomhole location will be 1390.47' FNL & 1827.2' FEL.

The purpose of the sidetracking is improve the drainage of the unit (see engineering notes attached and Exhibits attached). The bottom hole location is orthodox and within the drilling window for the Blanco Mesa Verde pool.

Your assistance granting administrative approval will be appreciated.

Yours truly,

Robert L. Crabb
On Site Technologies, Ltd.
Agent for D. J. Simmons Company, Ltd.

APPROVAL IS GRANTED FOR THE ABOVE REQUEST

SIGNATURE

TYPED OR PRINTED NAME

TITLE

DATE

P. O. BOX 2606 • FARMINGTON, NM 87499

TELEPHONE: (505) 325-8786 FAX: (505) 325-5667

District I

P.O. Box 1980, Hobbs, NM 88241

District II

P.O. Drawer DD, Artesia, NM 88211

District III

1000 Rio Brazos Rd, Aztec, NM 87410

District IV

P.O. Box 2088, Santa Fe, NM 87504

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

Form C-102

Revised February 21, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number	2. Pool Code 72319	3. Pool Name BLANCO MESA VERDE
4. Property Code	5. Property Name BUREAU OF LAND MANAGEMENT	6. Well Number E-1
7. OGRID No.	8. Operator Name J.D. SIMMONS COMPANY, LTD.	9. Elevation

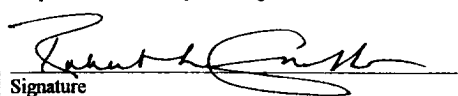
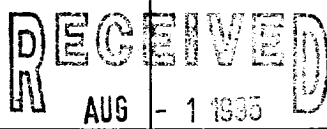

10. Surface Location

UL or lot no. B	Section 26	Township 29 North	Range 9 West	Lot Idn	Feet from the 790	North/South line North	Feet from the 1550	East/West line East	County San Juan
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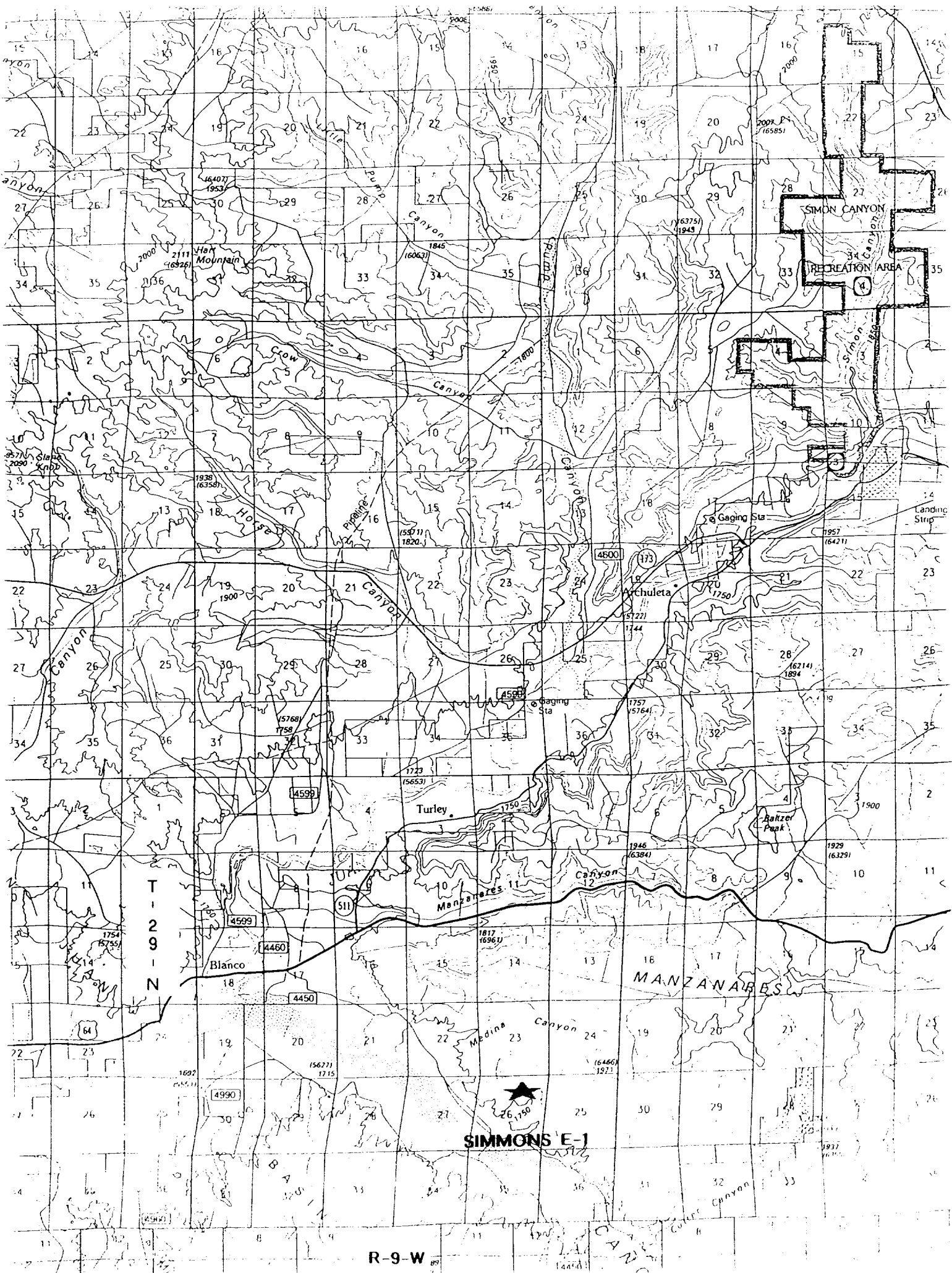
11. Bottom Hole Location If Different From Surface

UL or lot no. G	Section 26	Township 29 North	Range 9 West	Lot Idn	Feet from the 1390.47	North/South line North	Feet from the 1827.2	East/West line East	County San Juan
12. Dedicated Acres 320	13. Joint or Infill	14. Consolidation Code	15. Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16.	SURFACE LOCATION		17. OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Signature
	BOTTOM HOLE LOCATION		Robert L. Craabb Printed Name Agent for D.J. Simmons Company, Ltd. Title Date July 31, 1995
 			18. SURVEYOR CERTIFICATION 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 belief. Date of Survey Signature and Seal of Professional Surveyer Certificate Number





SIMMONS E-1

R-9-W

ENGINEERING NOTES

DISCUSSION

The Simmons E-1 is a Mesa Verde open hole completion drilled by D. J. Simmons Company in 1952. The well is located at 790' FNL x 1550' FEL, Section 26, T29N, R9W, San Juan County New Mexico. Diagram 1 details the wellbore geometry of the well. Of primary interest, note that 7", 23 ppf, casing was set to 3960' (bore hole diameter 8 3/4"). The casing was cemented with 300 sks. Calculations indicate that the maximum top of the cement in the 7" casing by 8 3/4" hole annulus is 1664 ft, assuming no shrinkage or lost returns. In all likelihood, the cement top is much deeper. Usually, current day primary cement job calculations utilize a 50% excess factor to cover lost returns and shrinkage. Below the casing the Mesa Verde was drilled with a 6 1/4" hole to 4848', and completed by 1952 open hole methods. The top of the Ojo Alamo, a known water producing zone is 1330 ft, well above the possible top of the cement in this well bore.

In 1990, D. J. Simmons company drilled the A. B. Geren No. 5, on the same well pad as the Simmons E-1. The A. B. Geren No. 5 is a Fruitland Coal well located at 872' FNL x 1490' FEL, Section 26. The distance between the center lines of the two well bores is 101.64 ft, assuming no down hole deviation in either well. 4 1/2", 10.5 ppf casing was run and cemented at 2449'. The Fruitland Coal sections were perforated from 2178 - 85, 2286 - 2300, 2310 - 15, and 2361 - 76 at 4 jspl. The coals were fractured with 55,000 lbs of sand and 71,400 gals of gelled water.

The A. B. Geren No. 5 produced significant amounts of water. Efforts to "de-water" the coal section, by compression and pumping, were not successful. Production records from offset coal wells indicate that "de-watering" should have been successful. In June of 1992, D. J. Simmons Company, ran a CBL log and tested the producing coal sections to attempt to determine the zones of water entry in the well. The top set of perforations 2178 - 2185, were squeezed with 515 sks of cement. The bottom perforations 2361 - 2376, were treated with 500 gals of 15% HCL. Pump and rods were re-ran and the well was returned to production. Produced water volumes did not diminish.

By reviewing the operational data, D. J. Simmons Company engineers, and On Site Technologies consulting engineers have determined that it is probable that the original fracture treatment performed in the coal sections of the A. B. Geren No. 5, created a fracture that intersected the well bore of the Simmons E-1, and connected the uncemented Ojo Alamo zone to the open perforations in the A. B. Geren No. 5. This possibility is supported by the unabated water production in the A. B. Geren No. 5 when compared to the water production of offset coal wells. Workover and squeeze operations on the A. B. Geren No. 5 have proven to be unsuccessful in shutting off the water.

To correct the situation, D. J. Simmons Company proposes to workover the Simmons E-1 well. It is desirable to prepare the E-1 for a Mesa Verde side track designed to penetrate the producing Mesa Verde intervals at some distance from the original open hole completion. During the course of the side track preparation, secondary squeeze cementing operations would be conducted, insuring that the existing 7" casing is cemented to the surface. Special efforts would be made to squeeze off the Ojo Alamo, and any other potential water production zones. These secondary cementing operations should produce a two-fold advantage in preparing the E-1 for sidetrack, and squeezing off the water producing sections that the fracture treatment of the A. B. Geren No. 5 probably intersected.

After secondary cementing operations are completed in the E-1, the A. B. Geren No. 5 will be retested to determine the success of the water shut off. If this is not successful, plugging and abandonment procedures for the A. B. Geren No. 5 will be prepared. If the operations are successful the A. B. Geren No. 5 will be returned to production.

Simmons E-1

Blanco Mesa Verde Sidetrack
Directional Drilling Plan

Engineering Calculations

On Site Technologies Ltd.
R. Griffin
7/21/95

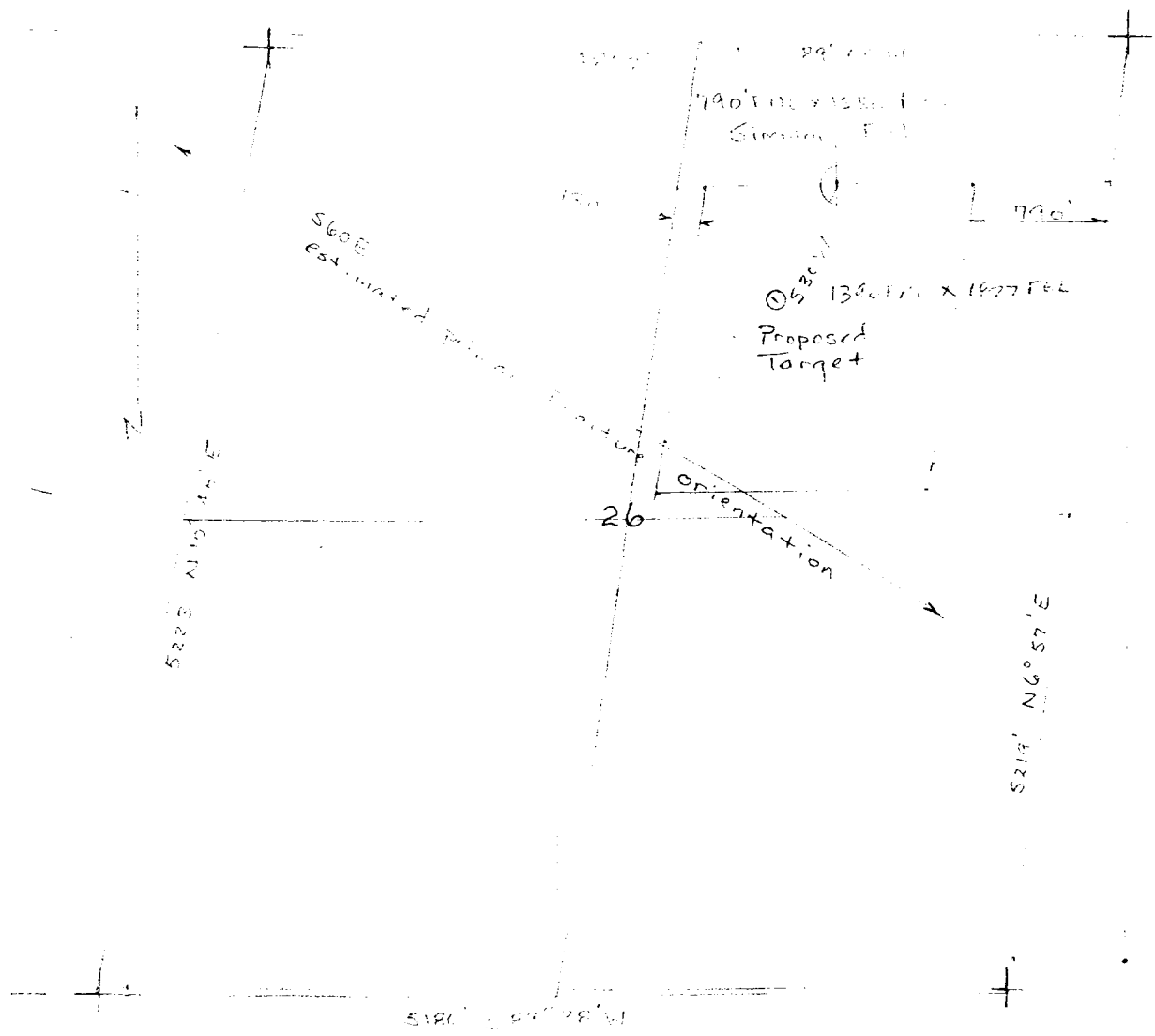
22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



7/7/95

Section 26 T29N R9W
San Juan County, NM

22.141 50 SHEETS
22.142 100 SHEETS
22.144 200 SHEETS



R. Gifford
On Site Technologies Ltd

Data from Logbook
1/1/95

Scale
1 inch = 100 feet

Summit 1
Blanco Mesa side track

Operational Outline

1. Plug back open hole to 3800'. 160' inside 7" csg set @ 3960'.
2. Repair 7" x 8 3/4" annulus by squeeze cementing. Cement to surface.
3. Cut window in 7" csg 3700' - 3850'.
4. Directionally drill 6 1/2" hole to target
 - a. KCP = 3800'
 - b. build @ 10°/100' to 44° @ 4240' M.D. & 4198' TVD
 - c. Target Location - bottom of Point Lookout
608.66' South and 351.41' West of Surface Locn
Legal coordinates BUL:
1390.47 FNL x 1827.2 FEL
5. Log. Run 4 1/2" csg to surface. Cement TD to 3600' inside 7" csg.
6. Perf 1/2" Frac Mesa Verde sands.

Note - Irregular Section

50 SHEETS
22-141 100 SHEETS
22-142 200 SHEETS

22-141
22-142
22-144



Simmons & Co
Current Wellbore Schematic

95' S.S. 14' @ 150'

R. G. F. 500
On Site Technologies Ltd

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS



1000

2000

3000

4000

1336
Ojo Alamo

1664' maximum TOC

2178
Fruitland
P.C. 2364
2455

? ?

y x

x x

y x

x x

y y

x y

2 3/8" 4.7 ppr J-55 EUE
tubing
Probably stuck in
operator

Lewis
3485
3510 Chacra

Lewis

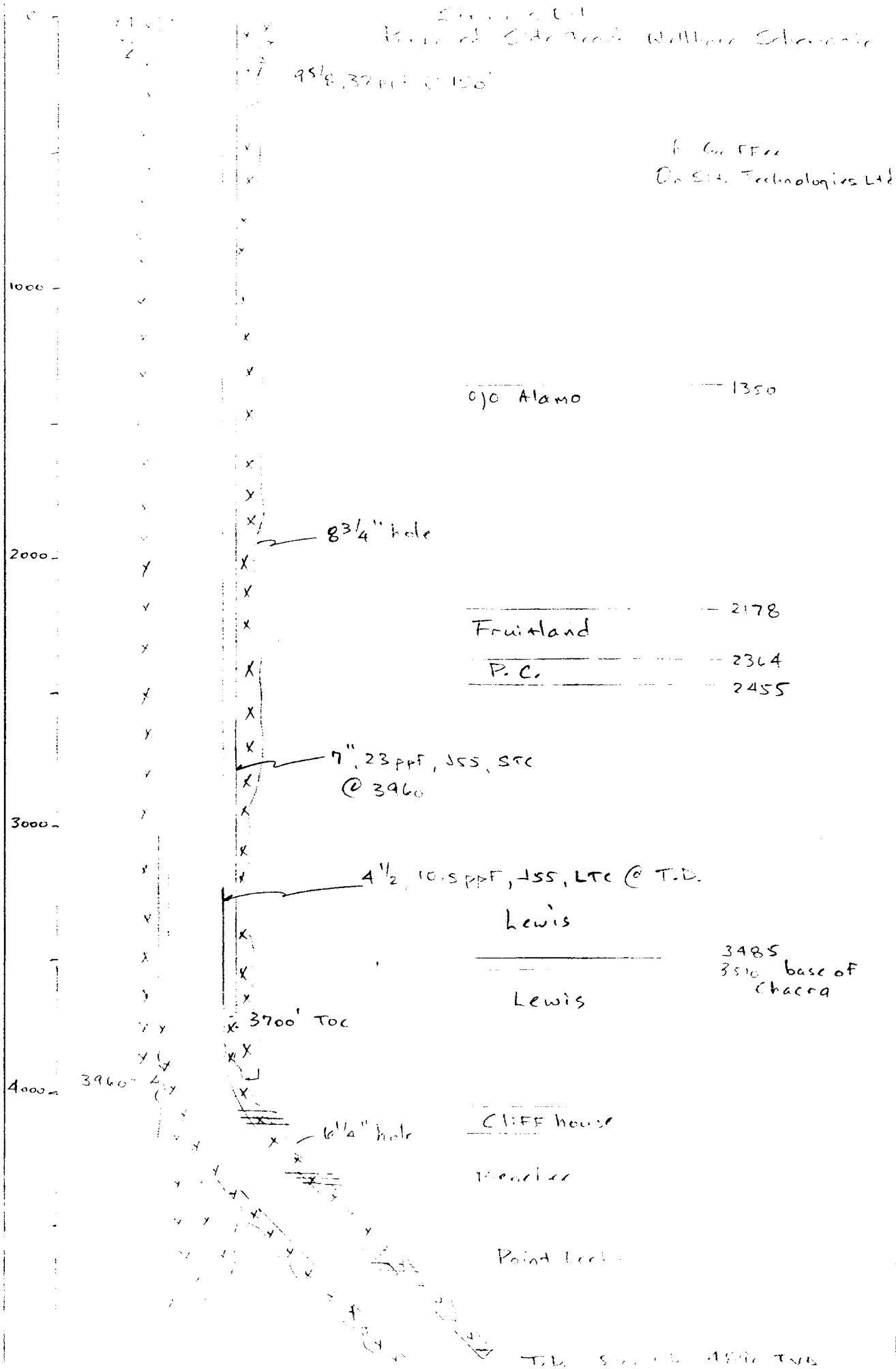
2" 23 ppr J-55 STC
@ 3960'

4040
Cliff house
4150
Mudstone

Nitrogen Shovel operator
Completion 12/16/1952

4545'
4760'

22-141 50 SHEETS
22-142 100 SHEETS
22-144 200 SHEETS





2000

Depth - TVD

3000

4000. 3960 /

Singapore & Dated at Singapore

541.1 191.1 W/

Surface
Leach

400
4
103 93

20

608.64

702. 6

 \wedge

Projected
EHL

351.41

Target

100' diameter
TVD 4760'

~ j r r

- 40

r 600

716.94

R. GriFFee
On Site Technologies Ltd

Lewis

3485 Chacra
3510

Lewis Sh. 1

Window

3700

385.

3800' Kof

Call Home

 Δ, Δ'

1911

Science

$$\max_{\sigma \in \Sigma} \sigma(\sigma^1, \sigma^2) \leq \Delta$$

Point

100

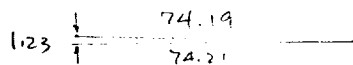
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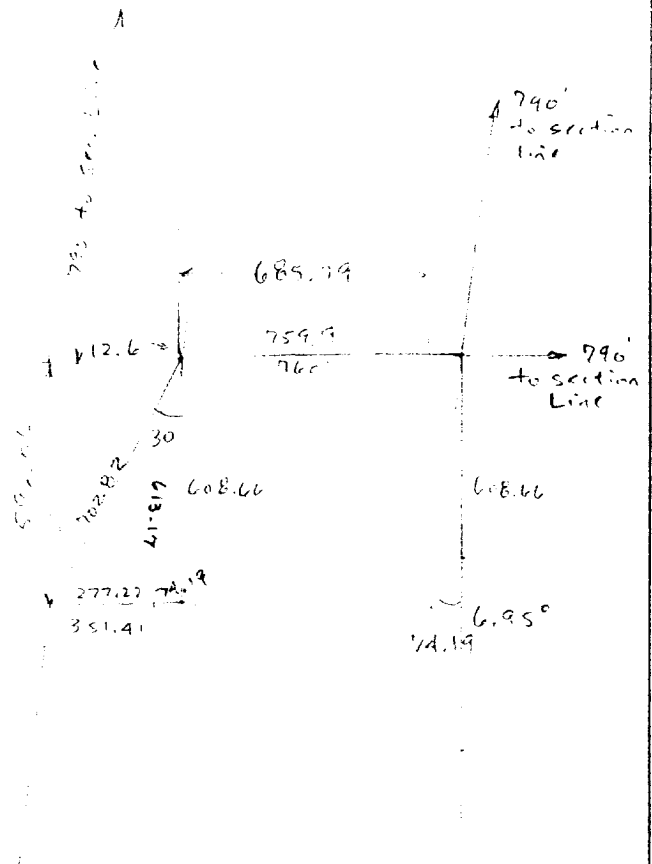
Build rate		10	deg/100 ft								
Measured Delta	Inclination	avg	Direction	Delta	Delta	Total	Total	South	West	South	West
Depth	Course	(degrees)	Inclination	TVD	Departure	TVD	Departure	Delta	Delta	Coor	Coor
Original Vertical Section											
0	0										
3800	3800	0	0 S30W	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00
Kick Off Point:		3800									
Build Section											
3800		0	0 S30W	0.00	0.00	3800.00	0.00	0.00	0.00		
3900	100	10	5 S30W	99.62	8.72	3899.62	8.72	7.55	4.36	7.55	4.36
4000	100	20	15 S30W	96.59	25.88	3996.21	34.60	22.41	12.94	29.96	17.30
4100	100	30	25 S30W	90.63	42.26	4086.84	76.86	36.60	21.13	66.56	38.43
4200	100	40	35 S30W	81.92	57.36	4168.76	134.22	49.67	28.68	116.24	67.11
4240	40	44	42 S30W	29.73	26.77	4198.48	160.98	23.18	13.38	139.41	80.49
Hold Point:		4240									
Hold Section											
4300	60	44	44 S30W	43.16	41.68	4241.64	202.66	36.10	20.84	175.51	101.33
4400	100	44	44 S30W	71.93	69.47	4313.58	272.13	60.16	34.73	235.67	136.06
4500	100	44	44 S30W	71.93	69.47	4385.51	341.59	60.16	34.73	295.83	170.80
4600	100	44	44 S30W	71.93	69.47	4457.45	411.06	60.16	34.73	355.99	205.53
4700	100	44	44 S30W	71.93	69.47	4529.38	480.53	60.16	34.73	416.15	240.26
4800	100	44	44 S30W	71.93	69.47	4601.31	549.99	60.16	34.73	476.31	275.00
4900	100	44	44 S30W	71.93	69.47	4673.25	619.46	60.16	34.73	536.47	309.73
5000	100	44	44 S30W	71.93	69.47	4745.18	688.92	60.16	34.73	596.62	344.46
5020	20	44	44 S30W	14.39	13.89	4759.57	702.82	12.03	6.95	608.66	351.41
5100	80	44	44 S30W	57.55	55.57	4817.12	758.39	48.13	27.79	656.78	379.19
5200	100	44	44 S30W	71.93	69.47	4889.05	827.85	60.16	34.73	716.94	413.93

7-219



94, 21, 25, 29, 31, 33,

7904685.79135141 = 182%2 FEL





Mr. Van Goebel
Meridian Oil & Gas, Inc.
P.O. Box 42489
Farmington, NM 87499

RE: REQUEST FOR ADMINISTRATIVE APPROVAL TO INTENTIONALLY
DEVIATE A WELL FROM VERTICAL

Dear Mr. Goebel:

On behalf of D J. Simmons Company, Ltd., On Site Technologies, Ltd. is applying for administrative approval to sidetrack for the four following well locations:

HAMNER A-1, SECTION 21, T-29-N, R-9-W
SIMMONS E-1, SECTION 26, T-29-N, R-9-W
SIMMONS E-2, SECTION 23, T-29-N, R-9-W
SIMMONS S-1, SECTION 25, T-29-N, R-9-W

These four locations were completed in the early 1950's as open hole completions. It is our belief that by sidetracking with modern technological methods, we can obtain improved drainage of the unit while remaining within the drilling window.

If you, as an offset operator, have no objections to this proposed action, please sign the attached waivers and return one copy of the signed document to the NMOCD in Aztec and the original to On Site Technologies, Ltd. I have enclosed self addressed envelopes for your convenience.

If you have any questions, regarding this application, please contact me.

Thank you for your assistance.

Yours truly,

A handwritten signature in black ink, appearing to read "Robert L. Crabb".

Robert L. Crabb
Agent for D J. Simmons Company, Ltd.

enclosures

cc D J. Simmons Company, Ltd.
NMOCD

Mr. Pete Mueller
Amoco, Inc
P.O. Box 800
Denver, CO 80701

RE: REQUEST FOR ADMINISTRATIVE APPROVAL TO INTENTIONALLY
DEVIATE A WELL FROM VERTICAL

Dear Mr. Mueller:

On behalf of D J. Simmons Company, Ltd., On Site Technologies, Ltd. is applying for administrative approval to sidetrack for the four following well locations:

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SIMMONS E-1, SECTION 26, T-29-N, R-9-W
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Agent for D J. Simmons Company, Ltd.

enclosures
cc D.J. Simmons Company, Ltd.
NMOCD