

## WELL REPORT

DAVIS OIL COMPANY: SNAKE EYES #1

SAN JUAN COUNTY, NEW MEXICO

### LOCATION

660' from the north line and 1980' from the west line, Section 20, Township 21 North, Range 8 West, NMPM.

### ELEVATION

6551 Ground: 6561 Kelley Bushing

### CONTRACTOR

Lewmont Drilling Associates, Rig #8, Unit 15, Rotary Tools.

### SPUD AND COMPLETION DATA

Well commenced: May 31, 1971  
Date Drilling completed: June 7, 1971  
Total Depth: 4720' Driller: 4739' Logger  
Initial production: Testing

### CASING

8 5/8" @ 75' with 40 sacks

5 1/2" @ 4739' with 250 sacks

### ELECTRICAL SURVEYS

Dresser Atlas - Induction Electrolog from 74' to 4735'  
Dresser Atlas - Densilog from 74' to 4737'  
Dresser Atlas - Acoustilog from 2045' to 2560': 3455' to 4160':  
4290' to 4731'

### FORMATION TOPS

<u>Cretaceous</u>	<u>Depth</u>	<u>KB Datum</u>
Fruitland (Kf)	Surface	+6561
Pictured Cliffs (Kpc)	225'	+6336
Lewis (Kl)	290'	+6271
Cliff House (Kch)	710'	+5851
Menefee (Kmf)	872'	+5689
Point Lookout (Kpl)	2390'	+4171
Upper Mancos (Kmu)	2522'	+4039
Gallup (Kg)	3491'	+3070
Gallup Sand (Kgs)	3544'	+3017
Lower Mancos (Kml)	3700'	+2861
Sanastee (Kms)	3990'	+2571
Greenhorn (Kgh)	4322'	+2239
Graneros (Kgr)	4370'	+2191



## FORMATION TOPS - CONTINUED

<u>Cretaceous</u>	<u>Depth</u>	<u>KB Datum</u>
Dakota "A" (Kda)	4390'	+2171
Dakota "B" (Kdb)	4504'	+2057
Dakota "D" (Kdd)	4594'	+1967
Dakota Burro Canyon (Kdbc)	4651'	+1910

## Jurassic

Morrison (Jm)	4737'	+1824
Total Depth	4739'	+1822

## WELL CUTTINGS

30' samples from 80' to 3000'

10' samples from 3000' to 4720'

Samples described below from 3000' to 4720' (TD)

## SAMPLE DESCRIPTION

3000-30	100% sh, gy, gy grn, carb: Tr gy grn sh: Tr ss, gy-wht, v-f-g, silty, carb, <u>N-S</u>
3030-50	100% sh, as above: Tr ss, wht, cons, f-g, arkosic, por, friable, intstl clay, <u>N-S</u>
3050-70	100% sh, as above
3070-80	90% sh, as above: 10% ss, wht-gy, cons, v-f-g, silty & shy, tite, carb inclus, sl/ark, <u>N-S</u>
3080-3120	80% sh, as above: 20% ss, as above
3120-30	70% sh, as above: 30% ss, as above
3130-50	60% sh, as above: 40% ss, as above
3150-70	70% sh, as above: 30% ss, as above
3170-80	80% sh, as above: 20% ss, as above
3180-3200	70% sh, as above: 30% ss, as above
3200-10	60% sh, as above: 30% ss, as above, 10% ss, wht, cons, f-g, SA-SR, arkosic, sl por, friable, intstl clay, <u>N-S</u>
3210-20	80% sh, as above: 20% gy, v-f-g, silty, shy ss, as above: Tr ss, wht, f-g, as above
3220-40	60% sh, as above: 40% ss, gy, v-f-g, as above: Tr ss, wht, f-g, as above
3240-50	80% sh, as above: 20% ss, gy v-f-g, as above

- 3250-60 50% ss, gy, cons, v-f-g, sl/ark, carb inclus, silty & shy in part, N-S: 50% sh, as above
- 3260-70 40% ss, gy, v-f-g, as above: 10% ss, cons, wht, f-g, arkosic, abt intstl clay, N-S: 50% sh, as above
- 3270-3310 80% sh, as above: 20% ss, gy, v-f-g, as above: Tr ss, wht, f-g
- 3310-20 90% sh, as above: 10% ss, gy, v-f-g, as above
- 3320-40 40% ss, gy, v-f-g, as above, N-S: 60% sh, as above: Tr wht, f-g, intstl clay - Tr aragonite
- 3340-50 80% ss, gy, v-f-g, sl/ark, carb inclus, silty & shy in part, N-S, occ f-m-g's: 20% sh, as above
- 3350-70 60% ss, as above: Tr ss, wht, cons, f-m-g, SA-SR, ark, intstl clay, sl/por & friable, N-S: 40% sh, as above: Tr aragonite
- 3370-90 80% ss, as above: 20% sh, as above
- 3390-3400 70% sh, as above: 30% ss, as above
- 3400-10 80% sh, as above: 20% ss, as above
- 3410-20 90% sh, as above: 10% ss, as above
- 3420-30 100% sh, as above: Tr ss, as above
- 3430-40 70% sh, as above: 30% ss, as above
- 3440-50 100% sh, as above: Tr ss, as above
- 3450-60 90% sh, as above: 10% ss, as above
- 3460-70 80% sh, as above: 20% ss, as above
- 3470-80 100% sh, as above: Tr ss, as above
- 3480-90 100% sh, as above: Tr ss, as above: Tr aragonite: abt coal

TOP GALLUP 3491' LOGS

- 3490-3520 100% sh, dk gy, gy, gy grn, carb: Tr ss, as above: Tr ls, brn, ds: occ cse qtz gr's: abt coal
- 3520-40 90% sh, as above: 10% ss, gy, v-f-f-g, arkosic, carb inclus, tite, silty, N-S: Tr ls as above: Tr aragonite: cse qtz gr's as above: abt coal

TOP GALLUP SAND 3544' LOGS

3540-80 70% sh, as above: 30% ss, as above  
3580-3600 90% sh, as above: 10% ss, as above  
3600-60 80% sh, as above: 20% ss, as above, N-S  
3660-3690 100% sh, as above: Tr ss, as above  
3690-3700 50% ss, wht, uncons, v-f-f-g, occ m-g's, SA-SR, N-S:  
50% sh, as above: Tr aragonite: abt brn ds ls

TOP LOWER MANCOS 3700' LOGS

3700-10 90% sh, as above: 10% ss, gy, v-f-g, sl/ark, carb  
inclus, sh lamin - N-S: Tr ls, as above: Tr aragonite  
3710-20 100% sh, as above: Tr ss, as above: Tr aragonite  
3720-3800 100% sh, as above, bcm sdy & silty in part: Tr ss, gy,  
v-f-g, glauc, carb inclus, shy, N-S  
3800-60 100% sh, as above, sltstn lamin (gy, carb, calc)  
Tr ss, as above  
3860-90 80% sh, as above: 20% sltstn, gy, calc, sdy in part:  
Tr ss, as above  
3890-20 100% sh, as above: Tr sltstn, as above: Tr ss, as above  
3920-30 70% sh, as above: 20% sltstn, as above: 10% ss, as above  
3930-40 80% sh, as above, bcm calc in part: 20% sltstn, as above:  
Tr ss, as above: Tr ls, brn, ds: Tr aragonite  
3940-60 100% sh, as above: Tr sltstn, as above: Tr ss, as above:  
Tr ls, tan, ds: Tr aragonite  
3960-70 100% sh, gy, dk gy, gy brn, gy grn, carb in part: Tr  
sltstn, as above  
3970-80 100% sh, as above: Tr ss, wht, f-g, cons, glauc, carb  
inclus, calc cmt: Tr bentonite

TOP SANASTEE 3990' LOGS

3980-4010 100% sh, as above: Tr ss, gy, v-f-g, shy, carb inclus  
N-S  
4010-20 90% sh, as above, Tr calc sh: 10% ss, as above, N-S  
4020-30 80% sh, as above, domin dk gy, calc sh: 10% ls, tan,  
f-xln, indist foss, tite, N-S: 10% ss, as above

4030-80 100% sh, as above: Tr sltstn, gy, calc: Tr ls, as above

4080-4100 90% sh, domin dk gy, calc, as above: 10% sltstn, gy, hd, calc: Tr ls, tan-brn, f-xln, indist foss

4100-10 100% sh, dk gy, abt sltstn, lamin (gy, hd, calc): Tr ls, as above

4110-40 80% sh, as above: 20% sltstn, as above: Tr ls, as above

4140-4200 100% sh, as above, dec sltstn lamin: Tr ls, as above: Tr ss, as above

4200-10 90% sh, as above, bcm more calc: 5% ls, as above: 5% sltstn, as above

4210-20 100% sh, as above: Tr ls, tan, f-xln, as above: Tr ls, gy, ds.

4220-40 100% sh, as above: Tr ls, as above: Tr ss, gy, v-f-g, carb inclus, N-S

4240-70 80% sh, as above: 20% sltstn, as above: Tr ss, as above: Tr ls, as above

4270-80 50% sltstn, gy, hd, calc: 50% sh, as above

4280-90 40% sltstn, as above: 60% sh, as above

4290-4310 70% sh, dk gy, platy (domin) sh, gy, gy brn carb: 30% sltstn, gy-gy brn, as above: Tr bentonite

4310-20 80% sh, as above: 20% sltstn, as above: Tr bentonite

TOP GREENHORN 4322' LOGS

4320-40 90% sh, as above: 10% sltstn, as above

4340-60 100% sh, as above: Tr sltstn, as above

TOP GRANEROS 4370' LOGS

4360-80 100% sh, as above

4380 Circ sample  
20% ss, wht-gy, f-m-g, SA, glauc, calc cmt v/sl por, some intstl clay, shy in part, N-S: 80% sh, as above

TOP DAKOTA "A" 4390' LOGS

4390-4400 100% sh, as above: Tr ss, as above

4406 Circ sample  
20% ss, wht, cons-uncons, f-m-g, arkosic, glauc, SA-SR, intstl clay, Tr por, N-S: 80% sh, as above

4410-30 10% ss, wht, f-g, as above: Tr ss, f-g, por & friable,  
N-S: 90% sh, as above

4430-40 100% sh, as above: Tr ss, as above

4440-60 100% sh, as above: Tr ss, dk gy, cons, v-f-f-g, shy, tite,  
 calc, N-S

4460-90 100% sh, dk gy, platy: Tr ss, as above

4498 Circ Sample  
 20% ss, wht-buff, cons, v-f-f-g, arkosic, glauc, SA-SR,  
 abt intstl clay in part, calc cmt in part, Tr por, N-S  
 80% sh, dk gy, platy

4490-4500 10% ss, as above: 90% sh, as above

TOP DAKOTA "B" 4504' LOGS

4500-10 100% sh, as above: Tr ss, as above

4510-30 50% ss, as above, N-S: 50% sh, as above

4530-50 100% sh, as above: Tr ss, as above

4550-80 100% sh, as above: Tr ss, gy, v-f-g, arkosic, shy,  
 tite, N-S

4584 Circ sample  
 20% ss, wht, cons, f-m-g, SA-SR, arkosic, Tr intstl clay,  
 Tr por, N-S: 80% sh, dk gy, gy, gy brn, platy in part,  
 carb in part, sdy & silty in part: Tr bentonite

4580-90 40% ss, wht, cons-uncons, domin uncons, as above, N-S  
 60% sh, as above: Tr bentonite

TOP DAKOTA "D" 4594' LOGS

4599 Circ Sample  
 15" - 50% ss, as above, Tr por-& friable, N-S: 50% sh  
 as above

30" - 70% ss, wht, cons-uncons, f-m-g, SA-SR, arkosic,  
 por & friable, N-S: 30% sh, as above

45" - 50% ss, as above: 50% sh, as above

4590-4600 30% ss, as above: 70% sh, as above

4600-10 90% sh, as above: 10% ss, as above

4610-20 80% sh, as above: 20% ss, as above

4620-30 90% sh, as above: 10% ss, as above

### TOP DAKOTA BURRO CANYON 4651' LOGS

4630-60 100% sh, as above: Tr ss, as above  
4660-70 20% ss, wht, cons-uncons, f-c-g, A-R, congl, Tr cht,  
N-S: 80% sh, as above  
4670-4710 40% ss, as above, Tr intstl clay: 60% sh, as above

### TOP MORRISON 4737' LOGS

4710-20 60% ss, as above, abt cht: 40% sh, dk gy, as above:  
Tr sh, pale grn, wxy

TD 4720' Driller: TD 4739' Logger

### DRILLING TIME

Five foot drilling time from 3000' to 4720' (Driller TD) is listed below.

3000-3100 5-5-5-6-6-6-5-5-5-5-5-5-6-5-6-5-5-5-6-5  
3100-3200 5-5-5-6-6-6-5-5-6-6-6-7-7-6-7-7-6-7-7-7  
3200-3300 7-8-7-8-7-7-8-8-9-9-9-10-8-10-8-8-8-8-9  
3300-3400 8-9-7-9-9-10-10-10-11-10-11-12-11-10-12-11-15-14-9-7  
3400-3500 7-7-8-8-8-9-9-9-8-9-8-9-7-7-7-9-9-10-10-12  
3500-3600 11-11-12-12-12-12-8-9-8-7-7-10-8-10-9-9-8-9-10-10  
3600-3700 7-10-11-13-8-12-13-13-13-11-14-13-13-15-16-14-17-30-10-8  
3700-3800 8-9-8-8-8-7-8-8-8-8-8-8-8-9-8-8-8-8-9-10  
3800-3900 12-12-11-11-13-12-13-12-13-13-14-13-12-12-14-14-14-14-14  
3900-4000 13-14-13-13-14-14-17-19-38-58-28-9-5-5-7-8-8-6-6-6  
4000-4100 7-7-6-6-5-6-6-6-8-8-8-8-8-6-7-8-10-12-15-10  
4100-4200 10-10-11-8-10-11-16-16-15-12-11-10-13-14-15-14-19-11-11-13  
4200-4300 13-13-11-10-10-11-11-13-13-13-11-11-11-11-15-12-11-11-10-10  
4300-4400 10-15-14-15-14-14-12-13-14-14-14-25-18-25-26-11-13-20-19-19  
4400-4500 5-11-11-12-13-17-15-10-11-20-22-26-27-29-33-39-43-36-13-18  
4500-4600 20-11-25-14-28-32-36-28-32-32-29-31-33-39-45-18-15-21-24-13  
4600-4700 20-18-29-36-32-50-30-10-25-16-16-32-13-7-10-11-8-9-6-5  
4700-4800 8-4-3-90

### CHRONOLOGICAL LOG

6-01-71 ø 2286'  
8 5/8", J-55, 24#, set @ 75' w/40 sacks cmt, 3% cacl  
Spud: 10:00 a.m. 5-31-71  
Rig up (3 hrs) Drilling (17 1/2 hrs) Trips ( 2 1/4 hrs)  
Misc. ( 1 1/4 hrs)  
Dev. 1/4° @ 575'  
1/2° @ 1074'  
1/4° @ 1575'  
1/2° @ 1887'  
  
6-02-71 ø 3300'  
Drilling (18 1/4 hrs) Trips (2 3/4 hrs) Lost Circ (1 hr)  
Misc. (2 hrs)  
Lost circ. @ 3100'

# CHRONOLOGICAL LOG - CONTINUED

6-02-71 Continued  
Dev. 3/4° @ 2876'

Mud Properties: Vis. 34  
Wt. 9.4

6-03-71 ø 3790'  
Drilling (17 1/2 hrs) Trips (5 1/2 hrs) Misc (1 hr)  
Dev. 3/4° @ 3392'  
1-1/4° @ 3687'

Mud Properties: Vis. 35  
Wt. 9.8  
PH. 10.0  
WL. 11.0

6-04-71 ø 4280'  
Drilling ( 20 hrs) Trip (2 1/4 hrs) Misc. ( 1 3/4 hrs)

Mud Properties: Vis. 30  
Wt. 9.2  
PH. 9.0  
WL. 9.8

6-05-71 ø 4431'  
Drilling ( 7 1/2 hrs) Circ samples ( 4 hrs) Testing (9 3/4 hrs)  
Trips ( 1 1/2 hrs) Wash to bottom (1/2 hr) Misc. (3/4 hr)

Mud Properties: Vis. 51  
Wt. 9.6  
PH. 9.0  
WL. 7.8

6-06-71 ø 4690'  
Drilling (20 1/4 hrs) Circ samples (2 3/4 hrs) Misc. (1 hr)

6-07-71 TD 4720' WOO  
Drilling (1 1/2 hrs) Circ samples (3/4 hr) Circ for logs  
(2 hrs) Logging (17 1/2 hrs) WOO (2 hrs) Rig service (1/4 hr)

6-08-71 TD 4739'(corr)  
Waiting on orders (6 hrs) Waiting on tester (3 hrs)  
Testing (15 hrs)

6-09-71 TD 4739'  
Testing (15 hrs) Condition hole (7 hrs) Trips (2 hrs)

6-10-71 TD 4739'  
Logging (2 1/4 hrs) Waiting on orders (3/4 hr)  
Rng. csg. (21 hrs)



BIT RECORD

<u>No.</u>	<u>Make</u>	<u>Size</u>	<u>Type</u>	<u>From</u>	<u>To</u>	<u>Footage</u>	<u>Hours Run</u>
1	STC	7 7/8	DTJ	75'	1887'	1812'	12 3/4
2	STC	7 7/8	DTTJ	1887'	2876'	989'	12 3/4
3	STC	7 7/8	DGT	2876'	3392'	516'	13 1/2
4	STC	7 7/8	DGT	3392'	3687'	295'	10 3/4
5	STC	7 7/8	DGT	3687'	3953'	266'	12 1/4
6	STC	7 7/8	DGT	3953'	4431'	478'	19
7	STC	7 7/8	V2HJ	4431'	4720'	289'	21 3/4

TOTAL ROTATING HOURS - 102 3/4

DEVIATION RECORD

<u>No.</u>	<u>Depth</u>	<u>Degree</u>	<u>Date</u>
1	575'	1/40	6-1-71
2	1074'	1/20	6-1-71
3	1575'	1/40	6-1-71
4	1887'	1/20	6-1-71
5	2876'	3/40	6-2-71
6	3392'	3/40	6-3-71
7	3687'	1-1/40	6-3-71
8	4431'	1 0	6-5-71

ELECTRICAL SURVEY CALCULATIONS

<u>Formation</u>	<u>Depth</u>	<u>Density</u>	<u>Porosity</u> <u>Acoustilog</u>	<u>Rw</u>	<u>Water</u> <u>Saturation</u>	<u>Q</u>
Dakota (Burro Canyon)	4682'	18%	21%	.75	100%*	.33
Dakota (Burro Canyon)	4672'	14%	14%	.75	80%	0
Dakota (Burro Canyon)	4654-59'	22%	22%	.70	100%	0
Dakota "D"	4622'	17%	17%	.5	60%	--
Dakota "D"	4615'	18%	18%	.5	70%	--
Dakota "D"	4597'	15%	15%	.5	60%	--
Dakota "B"	4524-30'	13%	17%	.5	100%*	.24
Dakota "B"	4510'	13%	18%	.7	100%*	.28
Dakota "A"	4422'	15%	18%	.22	91%*	.17

\*Epilog Formula

## DST RECORD

DST #1: 4375-4431 (Dakota "A")

Initial flow - 15 minutes, WBAI: Shut in - 45 minutes:  
Open - 60 minutes, VWBA, T-o tst: Shut in - 90 minutes

Recovered 80' of drilling mud.

Initial hydrostatic pressure	2306 psi
Final hydrostatic pressure	2259 psi
Initial flow pressure (1)	9 psi
Final flow pressure (1)	37 psi
Initial flow pressure (2)	37 psi
Final flow pressure (2)	83 psi
Initial shut in pressure (1)	1894 psi
Final shut in pressure (2)	1838 psi

BHT - 118°

Rw 3.25, 70°F: Cl. 1400 ppm

SP DST #2: 4592-4602 (Dakota "D")

Initial flow - 15 minutes, VSBAI, G-T-S 4 minutes estimated  
500 MCF: Shut in - 45 minutes: Open - 60 minutes

Gas guaged:	840 MCF	Immed.	12#	1 1/4" ck.
	1723 MCF	10"	26#	1 1/4" ck.
	1913 MCF	20"	30#	1 1/4" ck.
	2000 MCF	30"	32#	1 1/4" ck.
	2164 MCF	40"	36#	1 1/4" ck.
	2243 MCF	50"	38#	1 1/4" ck.
	2320 MCF	60"	40#	1 1/4" ck.

Shut in - 90 minutes

Recovered 2' distillate, 90' hg & dist. C M

Rm 1.7

Initial hydrostatic pressure	2393 psi
Final hydrostatic pressure	2366 psi
Initial flow pressure (1)	106 psi
Final flow pressure (1)	186 psi
Initial shut in pressure	2019 psi
Initial flow pressure (2)	106 psi
Final flow pressure (2)	293 psi
Final shut in pressure	1992 psi

BHT - 120°F

SP DST #3: 4602-30

Initial flow - 15 minutes: G-T-S, 3 minutes 840 MCF  
dec to 661 MCF: Shut in-45 minutes: Open - 15 minutes  
G-T-S Estimated 50 MCF immed. fl to surface 12"  
30% oil, 70% water: Shut in 90 minutes

Equalized: 42 grav. corr. 60°F - oil  
Oil unloaded: Recovered 1000' of water  
Rw 1.29 @ 70°F: Cl. 2335 ppm  
Bottom hole sampler: 415 cc oil  
535 cc water

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6	3392'	3/40	6-3-71
7	3687'	1-1/40	6-3-71
8	4431'	1 0	6-5-71

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Dakota (Burro Canyon)	4682'	18%	21%	.75	100%*	.33
Dakota (Burro Canyon)	4672'	14%	14%	.75	80%	0
Dakota (Burro Canyon)	4654-59'	22%	22%	.70	100%	0
Dakota "D"	4622'	17%	17%	.5	60%	--
Dakota "D"	4615'	18%	18%	.5	70%	--
Dakota "D"	4597'	15%	15%	.5	60%	--
Dakota "B"	4524-30'	13%	17%	.5	100%*	.24
Dakota "B"	4510'	13%	18%	.7	100%*	.28
Dakota "A"	4422'	15%	18%	.22	91%*	.17

\*Epilog Formula

DST RECORD - CONTINUED

Initial hydrostatic pressure	2393 psi
Final hydrostatic pressure	2393 psi
Initial flow pressure (1)	372 psi
Final flow pressure (1)	664 psi
Initial flow pressure (2)	664 psi
Final flow pressure (2)	984 psi
Initial shut in pressure	2019 psi
Final shut in pressure	1992 psi

BHT - 120°F

EL PASO NATURAL GAS COMPANY  
SAN JUAN LABORATORYFRACTIONAL DISTILLATION ANALYSIS ☐GAS CHROMATOGRAPHY ANALYSIS ☐

Date of Run 6-9-71 Analysis No. VF 20158  
 Sample From Davis Oil Company Date Secured 6-7-71  
 Sample Marked Snake Eye #1 Secured By Not given

COMPONENT	MOL. %	G. P. M.	LIQ. VOL. %
Carbon Dioxide	0.26		
Hydrogen Sulfide			
Nitrogen	1.25		
Methane	84.76		
Ethane	9.54		
Propane	2.39	0.656	
I-Butane	0.47	0.153	
N-Butane	0.59	0.185	
I-Pentane	0.25	0.091	
N-Pentane	0.18	0.065	
Hexane	0.31	0.135	
TOTALS	100.00	1.285	

HEATING VALUE  
B.T.U. PER CU. FT.

Dry Basis, 14.696 lbs./sq. in., 60° F.  
 Calculated from % Composition 1153

Calorimeter \_\_\_\_\_

SULPHUR CONTENT  
GRAINS PER 100 CU. FT.

14.7 lbs./sq. in., 60° F.  
 Hydrogen Sulfide \_\_\_\_\_

Mercaptans \_\_\_\_\_

## SPECIFIC GRAVITY

14.696 lbs./sq. in., 60° F.  
 Calculated from % Composition 0.665

Calculated from % Liquid \_\_\_\_\_

## VAPOR PRESSURE

PSIA at 100° F.  
 Calculated from Mole % \_\_\_\_\_

Run By Ross Checked By James

Remarks
E. W. Woody
R. L. Ahrens
H. L. Holder
R. Ullrich
R. E. Johnson
R. B. Herr
M. E. Blakely, Jr.
R. F. Lemon
J. E. Ashworth
Don Adams
John Ahlm
Davis Oil Company
File

Column/s Used	AE & MS
Calculation By	NGPA
Carbon Dioxide	NGPA
Hydrogen Sulfide	Lead Acetate

LOCATION AND WELL DATA				
Sec.	20	T.	21	N. R. 8 W.
County	Sandoval			
State	New Mexico			
Formation	Dakota DST @ 4720'			
Bomb Pressure				

## SUMMATION

This well was spudded May 31, 1971, and 5 1/2" casing was set to total depth June 10, 1971. The well was drilled to a total depth of 4739' (corr.) in the Morrison formation of Jurassic age. A total of 102 3/4 rotating hours were required for the drilling of this test.

All formations from 3000' to 4720' (Driller TD) were evaluated by (1) careful examination of rotary cuttings from 3000' to TD by a geologist in the field; (2) the entire stratigraphic section was evaluated by qualitative and quantitative analysis of the electrical surveys. No show of oil or gas was noted during the drilling of this test. Electrical survey calculations indicated a zone of interest in the top of the Dakota "D" zone (4594-4602). This interval was subsequently drillstem tested. Gas surfaced in 4 minutes and gauged 2320 MCF in 60 minutes. A second drillstem test was taken covering the entire Dakota "D" (4602-30). Gas surfaced in 3 minutes, (840 MCF dec to 50 MCF) fluid surfaced in 27 minutes (70% water, 30% oil). The pressures and detailed drillstem test data is noted in the text of the report. The other prospective zones in the well calculated water from the electrical surveys.

The well ran structurally 33' higher than the Petroleum Products: Santa Fe Cayedito #1, located in Section 21, Township 21 North, Range 8 West, San Juan County, New Mexico, on top of the Dakota "A" zone.

Rotary samples were saved from 80' to total depth and shipped to the Four Corners Sample Cut in Farmington, New Mexico. A sample of gas was analyzed by El Paso Natural Gas Company and is included in the text of the report. An Induction Electrolog, Densilog, and Acoustilog were run from surface to total depth.

Dave M. Thomas, Jr.  
CPG 914