District I PO Box 1980, Hobbs, NM 88241-1980 District [] PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM \$7410 District (V

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico

Submit to Appropriate District Office RECEIVED OCD - ARTESIA

Revised February 10, 1994

Instructions on back

State Lease - 6 Copies 🌣/ Fee Lease - 5 Copies

MAMENDED REPORT

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUBACK, OR ADD A ZONE

Operator Name and Address. ¹ OGRID Number Enron Oil & Gas Company 7377 P. O. Box 2267 API Numb Midland, TX 79702 30 - 0 15-Underly, ¹ Property Name Well No. Sand Tank "36" State Com 2

⁷ Surface Location

	UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
L	G	36	17S	29E		1700	North	1900	East	Eddy
								<u> </u>		

⁸ Proposed Bottom Hole Location If Different From Surface

						Different From Surface			
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
Sa	'Proposed Pool 1 Sand Tank Morrow OUS 70						" Propo	sed Pool 2	
			<u>X</u>	78/2	(

" Work Type Code	¹² Well Type Code	¹³ Cable/Rotary	14 Lease Type Code	Ground Level Elevation 3564
N	G	R	S	
¹⁴ Multiple	" Proposed Depth	" Formation	¹⁴ Contractor	²⁶ Spud Date
	11700	Morrow	Unknown	12/30/97

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
14 3/4	11 3/4	42	450	250	Surface
11	8 5/8	32 gradetta	hatle 4200	1100	Surface
7 7/8	5 1/2	17	11700	735	7500

Describe the proposed program. If this application is to DEEPEN or PLUG BACK give the data on the present productive zone and proposed a zone. Describe the blowout prevention program, if any. Use additional

See attached Drilling Program

BOP Diagram Attached

²² I hereby certify that the information given above is true and complete to the best of my knowledge and belief.	OIL CONSERVATION DIVISION			
Signature: Friday Unston	Approved by: ORIGINAL MACHINE W. GUM			
Printed name: Linda Johnston	Title: DISTRICT II SUPERVISOR .			
Title: Agent	Approval Date: MAR 2 1998 Expiration Date: 3-2-99			
	Conditions of Approval : Attached			

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Axtec, NM 87410 District IV PO Box 2088, Santa Fe, NM 67504-2088 State of New Mexico .ergy, Minerals & Natural Resources Departmen

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 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

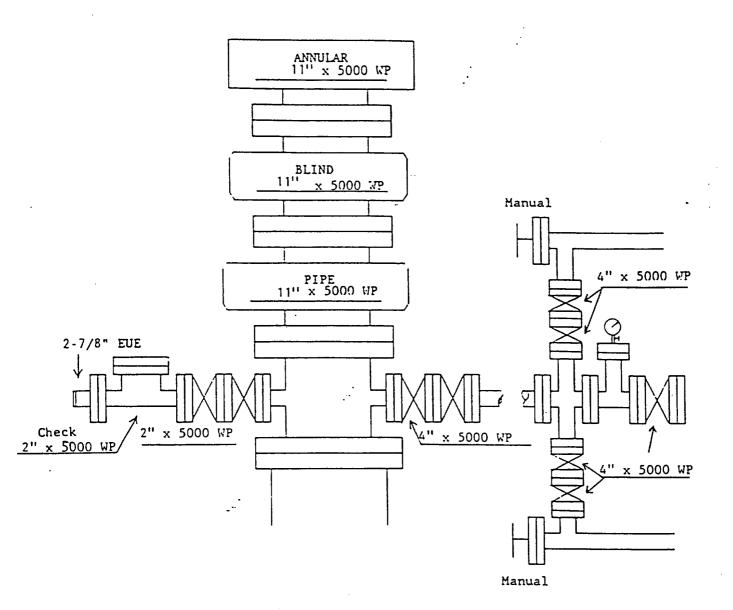
¹ API Number				² Pool Co	ode		Pool Na	me		
						Sand Tank	Morrow			
⁴ Property	Code		<u> </u>		⁵ Property	Name			⁵ Well Number	
				SAI	ND TANK "36"	STATE COM.			2	
7 OGRID	No.				⁶ Operator	Name			⁹ Elevation	
737	77			ENRON OIL AND GAS COMPANY					3564	
		<u> </u>		10	Surface I	ocation		h=		
L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County	
G	36	17-S	29-E		1700	NORTH	1900	EAST	EDDY	
		11	Bottom	Hole	Location If	Different Fr	rom Surfac	е		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West	line County	
Dedicated Acre	es ¹³ Joint	or Infill 14 C	onsolidatio	n Code 15 C	order No.					
320								····		
NO ALLOW	ABLE W	ILL BE A	SSIGNEI	то тн	IS COMPLETION	ON UNTIL ALL	INTERESTS :	HAVE BEE	N CONSOLIDAT	

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			17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.
	1700'		Linda Shorton
	Y:652513.8 X:594653.2 LAT: 32°47'36.4981' LONG:104'01'31.129		Linda Johnston Printed Name Agent Title 12/23/97
	LUNG:10401 31.12s	,	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 best of my belief. DECEMBER 18, 1997
			DECEMBER 18, 1997 Date of Survey Signature and Seni of French Co. 8278
			Certificate Number 8278

ENRON OIL & GAS COMPANY SAND TANK "36" STATE COM. WELL NO. 2

ATTACHMENT I



ENRON OIL & GAS COMPANY Sand Tank "36" State Com Well No. 2 1700' FNL & 1900' FEL SEC. 36, T17S, R29E EDDY COUNTY, NM

1. GEOLOGIC NAME OF SURFACE FORMATION:

Permian

2. <u>ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS</u>:

,
,
0'
0'
0'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Upper Permian Sands 100'	Fresh Water
Upper Penn	Gas

4. CASING PROGRAM:

Hole Size	<u>Interval</u>	OD Casing	Weight Grade Jt. Cond. Type
14 3/4"	0-450'	11 3/4"	42# H-40 A ST&C
11"	0-4200'	8 5/8"	32# J-55 LT&C
7 7/8"	0-500'	5 ½"	17# N-80 BTC
	500-11400	5 1/2"	17# N-80 LTC
	11400-11700	5 1/2"	17# S-95 LTC

Cementing Program:

1	1 3/4"	Surface Casing:	Cement to s	surface with	250 ex	Class C+2%
1	1 74	Surface Cashig.	Cement to s	surface with	23U SX	Class CTZ70

CaCl2 + 1/4#/sx flocele

8 5/8" Intermediate: Cement to surface with 800 sx Premium Plus lite +

15#/sx Salt + 1/4#/sx Flocele and 300 sx CL C + 2%

CaCl2.

5 ½" Production Casing: Cement with 735 sx 50/50 sx CL H/Poz+2% gel +

4% CF-14, .1% Diacel LWL. This cement slurry is

designed to bring TOC to 7500'.

ENRON OIL & GAS COMPANY Sand Tank "36" State Com Well No. 2 1700' FNL & 1900' FEL SEC. 36, T17S, R29E EDDY COUNTY, NM

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram-type (5000 psi WP) preventer and an annular preventer (5000 psi WP). Units will be hydraulically operated and the ram-type will be equipped with blind rams on top and drill pipe rams on bottom. All will be installed on the 11 3/4" surface casing and used continuously until TD is reached. All BOP's and accessory equipment will be tested to 600 psi before drilling out of surface casing. Before drilling out of intermediate casing, the ram-type BOP and accessory equipment will be tested to 5000 psi and the annular to 70% of rated working pressure (3500 psi).

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. A 2" kill line and 4" choke line will be included in the drilling spool located below the ram-type BOP. Other accessories to the BOP equipment will include a kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold with 5000 psi WP rating.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The well will be drilled to TD with a combination of brine, cut brine, and polymer/KCL mud system. The applicable depths and properties of this system are as follows:

		Wt Visco	sity Waterlo	SS
<u>Depth</u>	<u>Type</u>	(ppg)	(sec)	(cc)
0-650'	Fresh Water (spud)	8.5	40-45	N.C.
650'-4000'	Brine Water	10.0	30 N.C.	
4000'-TD	Cut Brine & Polymer/KCL	8.8-9.2	28	N.C.

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept at the wellsite at all times.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

- (G) A kelly cock will be kept in the frill string at all times.
- (H) A full opening drill pipe stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

ENRON OIL & GAS COMPANY Sand Tank "36" State Com Well No. 2 1700' FNL & 1900' FEL SEC. 36, T17S, R29E EDDY COUNTY, NM

(I) A mud logging unit complete with H2S detector will be continuously monitoring drilling perpetration rate and hydrocarbon shows from 2000' to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

- (H) The electric logging program will consist of GR-Dual Induction Focused and GR-Compensated Density-Neutron from TD to intermediate casing with a GR-Compensated Neutron run from intermediate casing to surface and Sonic from TD to Intermediate casing.
- (I) Possible side-wall cores based on shows.

9. <u>ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:</u>

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature (BHT) at TD is 175 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3800 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

The drilling operation should be finished in approximately one week. If the well is productive, an additional 30-45 days will be required for completion and testing before a decision is made to install permanent facilities.

ENRON OIL & GAS COMPANY Sand Tank "36" State Com Well No. 2 1700' FNL & 1900' FEL SEC. 36, T17S, R29E EDDY COUNTY, NM

SURFACE USE AND OPERATIONS PLAN

1. EXISTING ROADS:

Access to location will be made as shown on Exhibit #2

Routine grading and maintenance of existing roads will be conducted as necessary to maintain their condition as long as any operations continue on this lease.

2. PROPOSED ACCESS ROAD:

1338' New access road is required.

No turnouts necessary.

No culverts, cattleguards, gates, low-water crossings are necessary.

Surfacing material consists of native caliche to be obtained from the nearest BLM-approved caliche pit. Any additional materials required will be purchased from the dirt contractor.

3. LOCATION OF EXISTING WELLS:

Exhibit #3 shows all existing wells within a one-mile radius of this well.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES:

There are no existing production facilities. If production is encountered, a temporary facility will be established on the drill pad, and if warranted, a production facility would be built at a later date in the immediate area of the drill pad location. If the well is productive, the flowline would also be located on the drill-pad site and no additional disturbance will occur.

5. LOCATION AND TYPE OF WATER SUPPLY:

Water for drilling will be purchased from commercial sources and transported to the well site over the roads as shown on Exhibit #2.

6. PLANS FOR RESTORATION OF THE SURFACE:

ENRON OIL & GAS COMPANY Sand Tank "36" State Com Well No. 2 1700' FNL & 1900' FEL SEC. 36, T17S, R29E EDDY COUNTY, NM

After completion of drilling and/or completion operations, all equipment and other material not needed for operations will be removed. Location will be cleaned of all trash and junk to leave the well in an aesthetically pleasing condition as possible.

Any unguarded pits containing fluid will be fenced until they are dry and back filled.

After abandonment of the well, surface restoration will be in accordance with current federal laws and regulations. Location will be cleaned, and the well pad removed to promote vegetation. Reseeding will be as per BLM specifications.

7. METHODS OF HANDLING WASTE DISPOSAL:

A small reserve pit will be utilized. Reserve pit will be evacuated of drilling fluid within 10 days after the well is completed.

Drill cuttings will be encapsulated in plastic and buried two feet below ground level.

Water produced during tests and waste water will be saved and hauled to a disposal well. Oil produced during tests will be in test tanks until sold.

Current laws and regulations pertaining to the disposal of human waste will be complied with.

Trash, waste paper, garbage and junk will be hauled to an approved disposal site in an enclosed trash trailer.

All trash and debris will be removed from the well site within 30 days after finishing drilling and/or completion operations.

8. ANCILLARY FACILITIES:

No airstrip, campsite, or other facilities will be built.

9. WELL SITE LAYOUT:

Exhibit #4 shows the relative location and dimensions of the well pad.

ENRON OIL & GAS COMPANY Sand Tank "36" State Com Well No. 2 1700' FNL & 1900' FEL SEC. 36, T17S, R29E EDDY COUNTY, NM

10. OTHER INFORMATION:

The area around the well site is grassland and the top soil is duned and sandy. The vegetation is native scrub grasses with abundant oakbrush, sagebrush, yucca, and prickly pear.

11. CERTIFICATION:

I HEREBY CERTIFY that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Enron Oil & Gas Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Division Production Manager

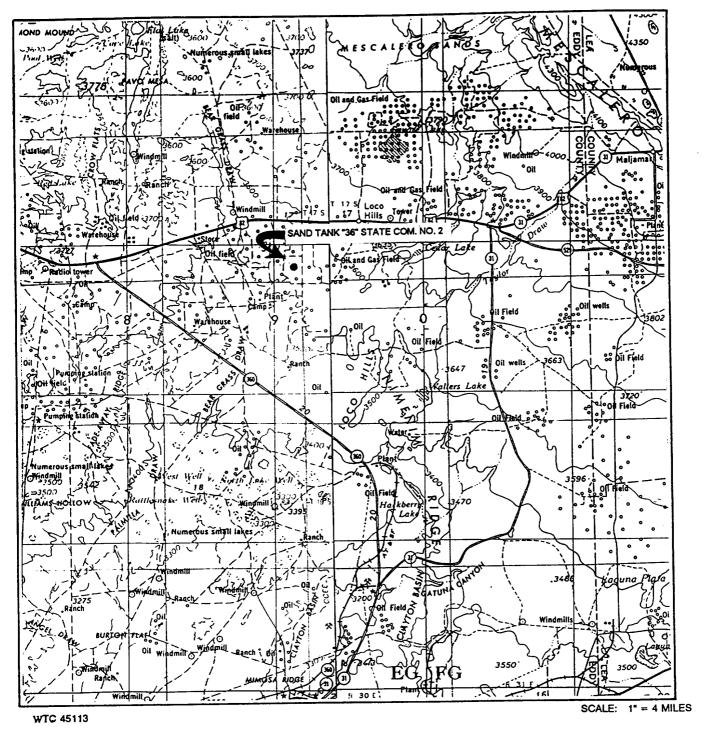
Date: 12/23/97

ENRON OIL & GAS COMPANY Sand Tank "36" State Com Well No. 2 1700' FNL & 1900' FEL SEC. 36, T17S, R29E EDDY COUNTY, NM

ATTACHMENT TO EXHIBIT #1

- 1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
- 2. Wear ring to be properly installed in head.
- 3. Blow out preventer and all fittings must be in good condition, 5000 psi W.P. minimum.
- 4. All fittings to be flanged
- 5. Safety valve must be available on rig floor at all times with proper connections, valve to be full bore 5000 psi W.P. minimum.
- 6. All choke and fill lines to be securely anchored, especially ends of choke lines.
- 7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
- 8. Kelly cock on kelly.
- 9. Extension wrenches and hand wheels to be properly installed.
- 10. Blow out preventer control to be located as close to driller's position as feasible.
- 11. Blow out preventer closing equipment to include minimum 40 gallon accumulator, two independent sources of pump power on each closing unit installation, and meet all API specifications.

JICINITY MAP



SEC	36	TWP	17-S	RGE	29-E
SURVE	Y	N.M.P.M			
COUNT	Υ	EDDY		STAT	E <u>NM</u>
DESCR	IPTION	1700' FI	NL & 190	O' FEL	
ELEVA"	тюн	3564'			
OPERA	TOR _	ENRON	OIL & GAS	COMPANY	
LEASE	SAN	D TANK "3	6" STATE (OM, NO. 2	

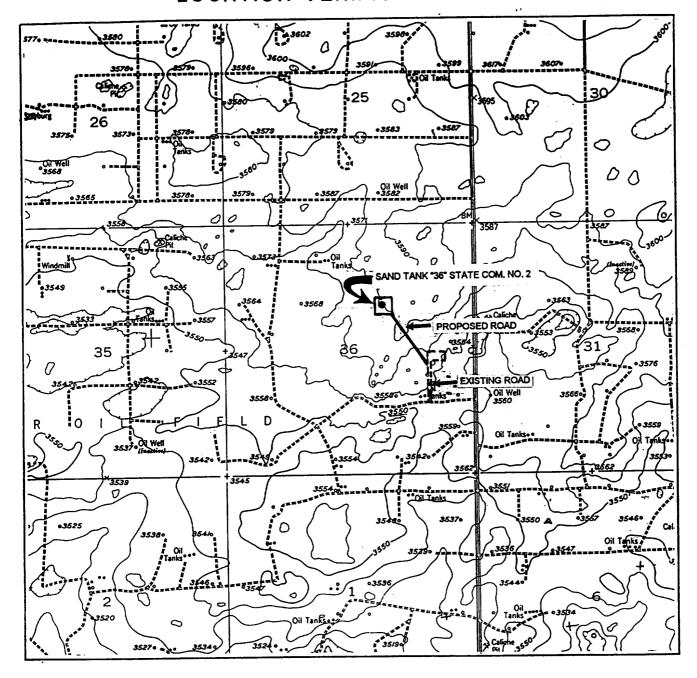
WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS

MIDLAND, TEXAS

915-685-3800

LOCALION VERIFICATION MAG



SCALE: 1" = 2000' WTC 45113

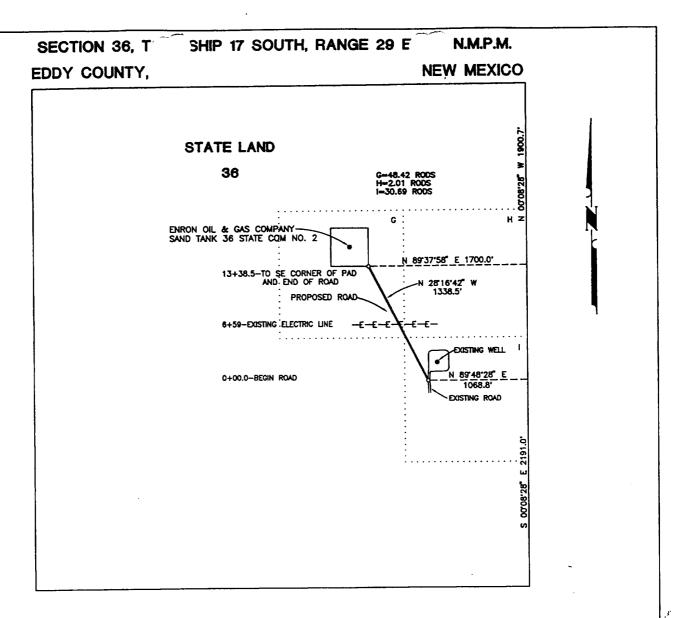
SEC. 36 TWP. 17-S RGE. 29-E SURVEY N.M.P.M ____ STATE NM COUNTY EDDY DESCRIPTION 1700' FNL & 1900' FEL ELEVATION 3564'. OPERATOR _____ENRON OIL & GAS COMPANY LEASE SAND TANK '36' STATE COM. NO. 2

USGS TOPO MAP RED LAKE SE, NEW MEXICO

CONTOUR INTERVAL 10'

WEST TEXAS CONSULTANTS, INC.

ENGINEERS-PLANNERS-SURVEYORS MIDLAND, TEXAS 915-685-3800



CENTERLINE DESCRIPTION FOR A PROPOSED ROAD:

BEGINNING at a point in an existing road, from which point the southeast corner of Section 36, T-17-S, R-29-E, N.M.P.M., Eddy County, New Mexico, bears N 89° 48' 28" E, 1068.8 feet and S 00° 08' 28" E, 2191.0 feet; THENCE N 28° 16' 42" W, with the centerline of proposed road, 1338.5 feet to the southeast corner of a 400' x 400' well site for Enron Oil & Gas Company SAND TANK "36" STATE COM. WELL No. 2, for the end of this road, from which point the northeast corner of Section 36 bears N 89° 37' 58" E, 1700.0 feet and N 00° 08' 28" W, 1900.7 feet.

I hereby certify that this plat was prepared from an actual survey made on the ground and meets or exceeds all requirements for land surveys as specified by the state of

New Mexico.

Representation of the Mexico Representation of the Re

Earl Foote Registered Professional Surveyor New Mexico Certificate No. 8278 PROPOSED ROAD TO SERVE SAND TANK "36" STATE COM. No. 2

ENRON OIL AND GAS COMPANY

1338.5 feet of proposed road in Section 36, T-17-S, R-29-E, N.M.P.M., Eddy County, New Mexico

WEST TEXAS CONSULTANTS, INC.

 ENGINEERS—PLANNERS—SURVEYORS
 MIDLAND, TEXAS

 Survey Date: 12—18—97
 Date: 12—22—97
 Scale: 1" = 1000'

 WTC No. 45113
 Drawn By: J.LE.
 Sheet 1 of 1

30-015-29985

OGRTI) 7377
PROP 20098
PEOI

8-11-99
MULTIPOLE ARMY ARMSTILOG/GARMA DAY LOG

9,050'- 11,361'

DIGITAL SPECTAGE

9,050' - 11,359 '

COMPENSITED Z-BENGILOG/COMP. NEUTRON) LOG GAMMO ROY LOG /CALIFER LOG

40'- 11,369 1

Some modernow forused lass famous ray las

3,950'- 11,401'



Gecl. Tops por 186A Rustler 1250 C Gueen 2180 Graybung 2580 San Andres 3000 Lowington Sand 3129

Abe ? Wolfcamp 8660

CISCC -CANYON 9380 STRawn 9970 atoka 10460 "DATOM" 10720 Morrow LS 10820 Manrow Clastics 10978