FILE NOTATIONS

tered in NID File .....
cation Map Pinned .....
ard Indexed .....

Checked by Chief .....
Approval Letter .....
Disapproval Letter .....

COMPLETION DATA:

Well Completed 4/5/78
WW..... TA.....
W.V... OS..... PA.....

Location Inspected ...
Bond released
State or Fee Land .....

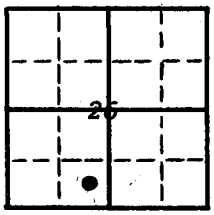
LOGS FILED

Driller's Log.....
Electric Logs (No.) .....
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... Mi-L..... Sonic.....
CBLog..... CCLog..... Others.....

Form OGCC-1

(SUBMIT IN DUPLICATE)

LAND:



STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SALT LAKE CITY, UTAH

Fee and Patented ☐
State ☐
Lease No. ML-28226

Public Domain ☐
Lease No.

Indian ☐
Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill	XX	Subsequent Report of Water Shut-off	
Notice of Intention to Change Plans		Subsequent Report of Altering Casing	
Notice of Intention to Redrill or Repair		Subsequent Report of Redrilling or Repair	
Notice of Intention to Pull or Alter Casing		Supplementary Well History	
Notice of Intention to Abandon Well			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

August 22, 19 78

Well No. 1 is located 500 ft. from {N/S} line and 1820 ft. from {E/W} line of Sec.

SE/4 SW/4 Sec 26.	21 South	23 East	SLB&M
(¼ Sec. and Sec. No.)	(Twp.)	(Range)	(Meridian)

Wildcat	Grand	UTAH
(Field)	(County or Subdivision)	(State or Territory)

The elevation of the derrick floor above sea level is 4363 feet.

A drilling and plugging bond has been filed with American Home Assurance Company Bond # 02-18-36

DETAILS OF WORK

Filed w/state 2 weeks ago

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

Supron Energy Corporation proposes to drill this well as follows:

1. Drill 11" hole to 200'. Set either 8-5/8" 24# or 7-5/8" 26.4# casing and circulate cement to surface.
2. Drill 7-7/8" or 6-3/4" hole to TD of ± 1500'. Logs will be run at this time and if warranted 5-1/2" 15.5# or 4-1/2" 10.5# casing will be run and cemented as necessary.
3. Well will be perforated and stimulated as necessary to obtain commercial production.

Spud date is not known at this time.

Estimated Geological Tops:

Dakota	684'	Summerville	1250'
Buckhorn	748'	Entrada	1450'
Salt Wash	1200'		

RECEIVED
SEP 8 1978
OIL, GAS, & MINING

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

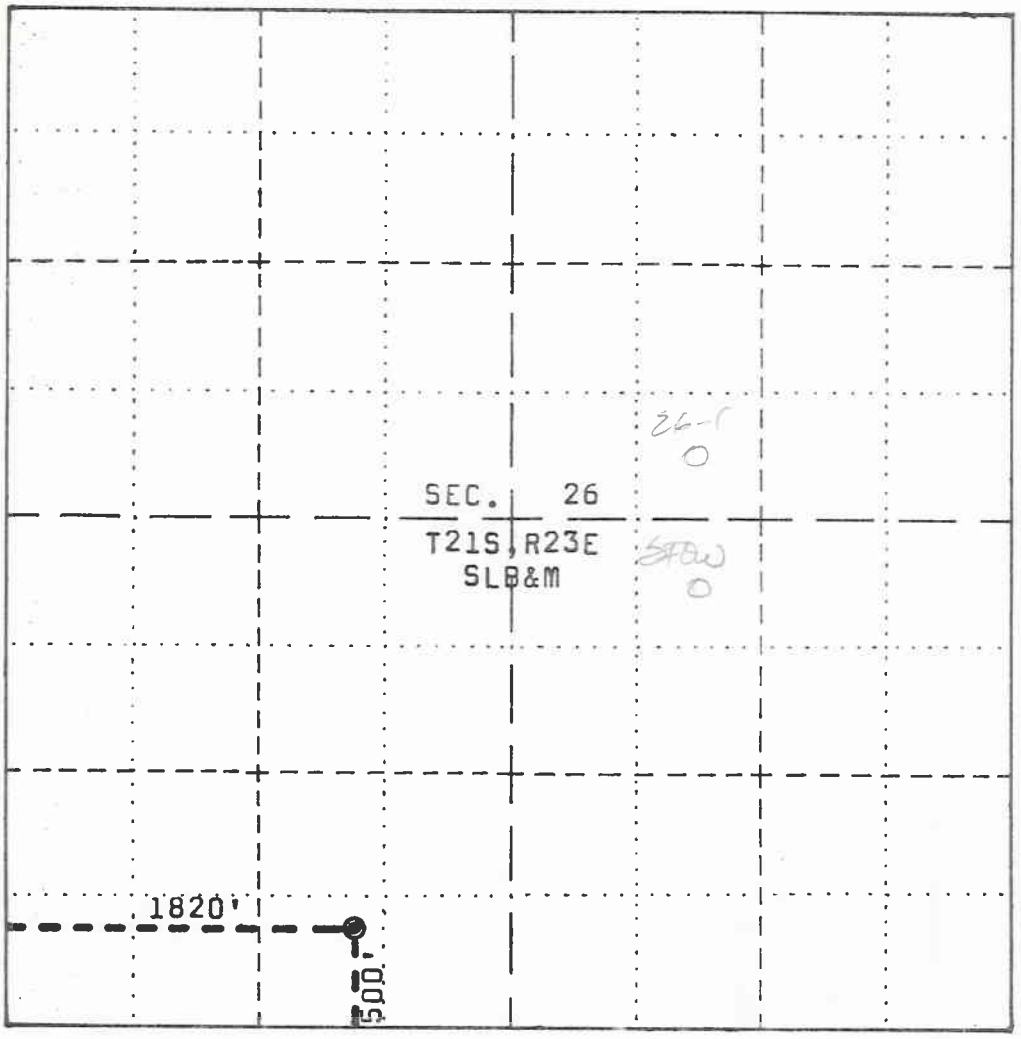
Company SUPRON ENERGY CORPORATION

Address Bldg. V Fifth Floor
10300 North Central Expressway
Dallas, Texas 75231

By Dan R. Collier
Dan R. Collier

Title Operations Assistant

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.



SUPRON ENERGY CORPORATION
MOBIL 26-21-23 #1

Located North 500 feet from the South boundary and East 1820 feet from the West boundary of Section 26, T21S, R23E, SLB&M.

Elev. 4352

Grand County, Utah

REGISTERED LAND SURVEYOR
No. 2573
UDELL S. WILLIAMS
STATE OF UTAH

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

UTAH R.L.S. NO. 2573

UDELL S. WILLIAMS
751 Rood Avenue
GRAND JUNCTION, COLORADO 81501

PLAT OF
PROPOSED LOCATION
SUPRON ENERGY CORPORATION
MOBIL 26-21-23 #1
SEC. 26, T21S, R23E, SLB&M

SURVEYED BY: USW DATE: 8/17/78
DRAWN BY: USW DATE: 8/18/78

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: Sept. 8, 1978

Operator: Supron Energy Company

Well No: [redacted] Mobil 26-21-23-1

Location: Sec. 26 T. 21S R. 23E County: Grand

File Prepared: / / Entered on N.I.D.: / /

Card Indexed: / / Completion Sheet: / /

API Number: 43-019-30466

CHECKED BY:

Administrative Assistant: AW

Remarks: Ok - Kit Patten

Petroleum Engineer: OK

Remarks:

Director: [signature]

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: / Ok /

Survey Plat Required: / /

Order No. 102-5

Surface Casing Change / /
to _____

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site / /

O.K. Rule C-3 / /

O.K. In _____ Unit

Other:

/ V / Letter Written/~~Approved~~

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

September 20, 1978

Supron Energy Corporation
Building 5 - Fifth Floor
10300 North Central Expressway
Dallas, Texas 75231

Re: Well No's:
State 2-20-21-1
Sec. 2, T. 20 S, R. 21 E,
Mobile 26-21-23-1
Sec. 26, T. 21 S, R. 23 E,
Grynberg 36-20-23-1
Sec. 36, T. 20 S, R. 23 E,
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with the Orders issued in Cause No. 102-5 and 102-12.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are:

#2-20-21-1: 43-019-30465
#26-21-23-1: 43-019-30466
#36-20-23-1: 43-019-30467

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT, Director

October 19, 1978

MEMO TO FILE

Re: SUPRON ENERGY CORPORATION
Well No. Mobil 26-21-23-1
Sec. 26, T. 21S, R. 23E
Grand County, Utah

This office received word that the above well was spudded-in on October 18, 1978 at 3:45 AM.

The drilling contractor is Jacobs Drilling Company and they are using their Rig #2.

CLEON B. FEIGHT
DIRECTOR
DIVISION OF OIL, GAS, & MINING

CBF/lw
cc:State Land Board
State Industrial Commission

Form OGC-3

Utah State

P 14

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

RECEIVED NOV 30 1978 DIVISION OF OIL, GAS & MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: ML-28226

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: State

9. WELL NO.: #1 Mobil (26-21-23-1)

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: SE. SW. Sec.26-21S-23E S.L.M.

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: Supron Energy Corp.

3. ADDRESS OF OPERATOR: Bldg. 5, 10300 N. Central Expressway, Dallas, Texas 75206

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: SE.SW. Section 26, T 21S, R 23E, S.L.M.
At top prod. interval reported below: 500' fr. S-line, and 1820' fr. W-line
At total depth

14. PERMIT NO. / DATE ISSUED

12. COUNTY OR PARISH: Grand

13. STATE: Utah

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
Oct.18,78	10-20-78	11-15-78	4350' grd; 4360' K.B.	4352'

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
1130'	1074'		→	0-1130'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: ✓Morrison (Salt Wash) 800'-818'

25. WAS DIRECTIONAL SURVEY MADE:

26. TYPE ELECTRIC AND OTHER LOGS RUN: Dual Induction Laterolog; Gamma-Density-CNL

27. WAS WELL CORED: No

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24.00	134' K.B.	11"	60 sks	None
4½"	10.50	1074'	7 7/8"	200 sks	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
	None			

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	780'	None

31. PERFORATION RECORD (*Interval, size and number*): 798'-818'

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
798-810'	100 gal 15% acid; 900 gal of methanol

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)
Nov. 15	Flowing	Shut-in

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
Nov. 16	6 hrs.	3/8"		None	129/Day	36 bbl/D	

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
70#			Open-Flow	300/Day ✓	26 bbl/Day	

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY: George Welden

35. LIST OF ATTACHMENTS: Drilling History, Completion History, and Geologic Report

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED W. Don Quigley TITLE Consulting Geologist DATE Nov. 27, 1978

*(See Instructions and Spaces for Additional Data on Reverse Side)

DRILLING HISTORY,

COMPLETION HISTORY,

AND

GEOLOGIC REPORT

ON

SUPRON #1 MOBIL (26-21-23)

GRAND COUNTY, UTAH

By

W. Don Quigley

Consulting Geologist

Salt Lake City, Utah

November 21, 1978

DRILLING HISTORY,
COMPLETION HISTORY,
AND
GEOLOGIC REPORT
ON
SUPRON #1 MOBIL (26-21-23)
GRAND COUNTY, UTAH

Operator: Supron Energy Corporation
Bldg. 5, 10300 N. Central Expressway, Dallas, Texas

Contractor: Jacobs Drilling Co.
2467 Commerce St., Grand Junction, Colo. 81501

Location: SE. SW. Sec. 26, T 21S, R 23E, S.L.M., Grand County, Utah (500' fr. S-line and 1820' fr. W-line).

Elevation: 4350' grd.; 4360' K.B.

Spudded-in: October 18, 1978

Surface Casing: 3 jts of 8 5/8", 24.00#, K-55, R-3 casing set at 134' K.B. and cemented w/60 sks reg. cement w/3% CaCl.

Total Depth: 1130'

Finished Drlg: October 20, 1978

Completion Date: November 15, 1978

Producing Formation: Morrison (Salt Wash)

Production Zone: Salt Wash (800-818')

Production Casing: 4½", 10.50#, K-55, R-3 casing set at 1074' K.B. and cemented w/200 sks of Pozmix cement w/3% NaCl.

Production Rate: Estimate well will produce at an initial open-flow rate of 300 MCF of gas per day plus about 25 bbl. water.

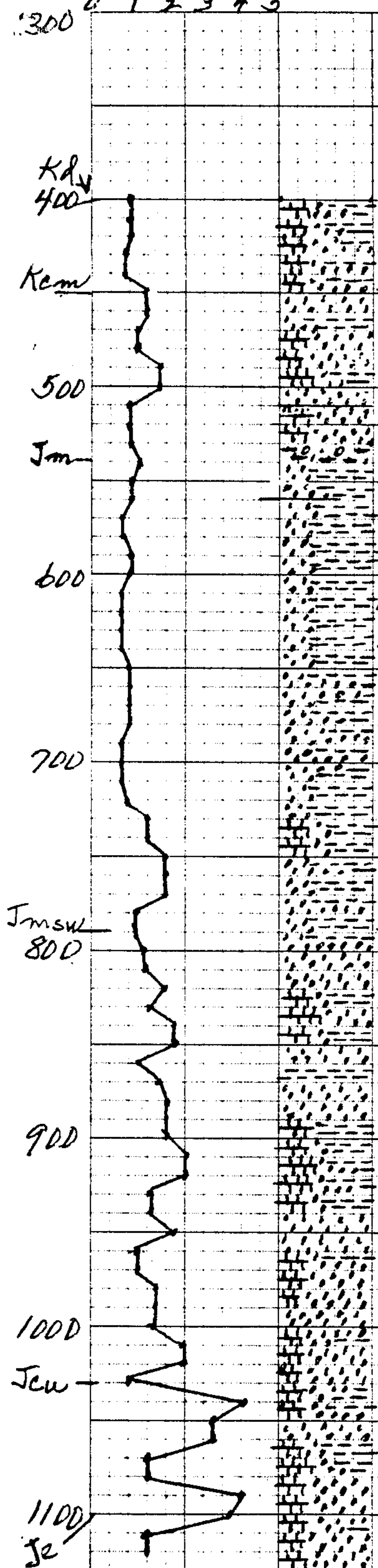
Drlg Line 0 1 2 3 4 5

Simpson #1 Mobil Well

SE. SW. Sec. 26-21S-[illegible]E

(500' fr. S-line & 1820' fr W-line)

Elev.: 4350' grd; 4360' K.B.



Dk. gry. sl. calc. sdy sh. & slst. No shows + Lt. brn vfg ss.

* Dk gry. to lt. gry. vfg. bent. calc. ss. & gry slst. w/gas odor. + lt. brn vfg. dirty ss.

* Lt. brn. vfg. non-calc. dirty ss w/gas odor. w/ sl. cut.

Lt. grn. bent silty sh.

Lt. gry-cln. m.g. sl. calc. rd'd-sub rd'd ss. Wet. - mist-drlg. No show

Lt. gry silic sh. lt. brn. silic. lms. & pur. sh.

Lt. gry to cln.; rd'd ss. - No shows - More H_2O plus some lt. brn. lms.

Lt. grn to wh. fg. rd'd calc. ss. (bent.)

Lt. grn silic - bent. sh. & sl. congl. grn-grade. rd'd. ss. w/amber. ch. pebs.

Grn silic. sh. + lt. gry hd. qtzic. ss., rd. slst. & grn-gry slst. & pur sh

Varic. silic sh. & slst. + lt. gry bent. sh.

As above + lots of rd. sh. & slst.

Mostly rd sh. & slst.

Pur. sh. & slst.

Varic. sh. & slst. + lt. gry bent. sh - pur. sh

Rd. sh & slst. + lt. gry to rddsh vfg. ss.

As above + gry-grn & pur sh.

Mostly rd. slst. & vfg rd ss

Varic. sh. & slst + lt. gry vfg. tgt. ss.

Mostly rd. sh. & slst.

Lt. gry to wh. silic. calc. sh. & slst.

Rd slst. & lt. gry vfg. qtzic ss.

Varic. sh. & slst & lt. gry fg. bent. ss.

Mostly rd. sh. & slst. + some calc. + cln. rd'd m.g. ss

Rd. & lt. grn silic to bent. sh. & slst.

* As above + m.g. cln rd'd ss. — 25 ft. gas flare — DH. conn.

* Lt. gry mg. rd'd ss. w/scat. fluor & resid. blk oil. - good cut & odor

* Cln mg-fg. rd'd ss w/scat. fluor & spks of resid oil - more gas & H_2O

Varic. calc. sh. & slst.

Lt. gry to cln. ang-sub rd'd. fg. calc. ss. & lt. brn xln lms.

Rd calc. slst.

Cln. m.g. rd'd. ss w/amber & grn pcs. - looks wet.

Rd & grn calc. bent. sh. - some pcs. of sh. w/oil stks (resid.)

Cln. rd'd m.g.-c.g. ss - looks wet.

Rd. grn. & gry calc. sh.

Rd calc. slst. & silty sh.

Rd & grn. calc. sh. & slst. - lt. gry calc. fg. ss. - lt. brn xln lms.

Rd grn. & gry calc. sh. & slst. +

Rd calc. slst. & gry calc. sh. + some blk sdy sh.

* Lt. gry fg. hd. rd'd ss w/ stks of blk resid oil; scat fluor

* M.g. to c.g. cln. rd'd ss

Rd. calc. slst. dk gry sdy sh. & dirty ss.

* Dk gry. fg. calc. ss w/ blk resid. oil stks.

* M.g. cln. rd'd, sl. calc., ss w/ fluor. & cut w/out shows

Grn-gry fg. ss. & grn sh. (calc.)

* Wh. to cln. rd'd m.g. ss. w/ sl. fluor.

* Tan to cln. rd'd m.g. ss. w/ + fluor. & cut

Grn & rd. calc. sdy sh. & tan m.g. ss.

* Grn sdy sh. + grn calc. fg. ss. gry fg. calc. ss w/blk resid oil.

Wh. to cln. rd'd. m.g. ss - No shows.

Grn. calc. sh. & slst.

Wh. vfg. hd. calc. ss. gry vfg. hd. calc. ss & gry sdy lms

Cln. mg rd'd. ss. (tan) + rd. & grn vfg. ss. & slst.

T.D. = 1130'

46 0860

K&E 5 X 5 TO 1/2 INCH • 7 X 10 INCHES KEUFFEL & ESSER CO. MADE IN U.S.A.

Drilling History

Oct. 17: Moving rig and rigging up.

Oct. 18: Finished rigging-up. Drilled rat hole. Began drilling 11" surface hole at 03:45 A.M. Drilled 0 to 135' (135'). Ran 3 jts of 8 5/8", 24.00#, K-55, R-3 casing and landed at 135' K.B. Cemented with 60 sks of reg. cement w/3% CaCl. Had returns to surface. Plug down at 4:15 P.M. Waiting on cement to cure. Began nippling up.

Oct. 19: Drilled 135' to 390' (155'). Finished nippling-up. Drilled out cement and blew hole dry. Drilling ahead with 7 7/8" bit and using air for circulation. Began drilling below surface casing at 2:15 P.M. Drilling at avg. rate of 15 ft/hr. in Mancos shale. Have seven 6¼" collars with bottom hole reamer and stablizer (20' up) on bottom of drill string. Survey at 155' was ¼°. Tested B.O.P. at 1000# at top of cement and below casing shoe. Mixed mud for future use.

Oct. 20: Drilled 390' to 1130' (740'). Est. top of Dakota at 400'. Encountered water at 470'-490' and had to convert to mist-drilling. Survey at 504' was ½°. Est. top of Cedar Mt. at 450' and top of Morrison at 540'. Had only slight shows in Dakota and Cedar Mt. formations. Had a gas flare (25 ft. for 2 secs) at 800' which was in the top sand of the Salt Wash section. Sand was medium grained and had scattered fluorescence with residual black oil specks. Had continual gas flares on each connection after this. Drilled to 1130' and decided this was deep enough. Est. top of Entrada at 1100' and had last show of hydrocarbons at 1050'. Mudded up well for logging and running casing. Gas flare of 25 ft. continuous after drilling ceased.

Oct. 21: Finished mudding up. Circulated to bottom. Had no fill. Circulated hole and drilled with mud to 1121' when Schlumberger arrived to log. Came out of hole with drill string. Started logging at 5 A.M.

Well started to unload mud at 5:30 A.M.; so had to pull out logging tool and go in hole with drill pipe. Began circulation and killed gas flow temporarily. Waited for 100 sacks of Barite to weight-up mud. 0800-1100 hrs: mixed in barite. Mud wt. about 9.5#/gal. Gas worked out of mud and mud is fairly smooth. Circulated hole from 1200 hrs. to 1800 hrs. Waiting on Schlumberger to get back. Made rd-trip to change out bit to wash to bottom. Began logging at 2115 hrs.

Oct. 22: Finished logging at 0200 hrs. Went in hole with drill pipe and drill collars and came out laying down. Finished laying down collars at 0515 hrs. Ran 27 jts of 4½", 10.50#, K-55, R-3 casing with guide shoe on bottom, float insert 35' from bottom, and centralizers on 1st, 3rd, 5th, 7th, 14th, and 16th collars. Landed casing at 1074' K.B. Cemented w/200 sks of 50-50 Pozmix w/10% NaCl. Plug down at 0830 hrs.

Completion History

Nov. 1, 1978: Moved-in completion rig and rigged-up. Ran correlation-bond log.

Nov. 2: Ran tubing (2 3/8" O.D.) to 850' (?) and perforated zone 874' to 882' with 2 shots/ft. Well went on vacuum.

Nov. 3: Well still on vacuum.

Nov. 4: Perforated zone 848' to 858' with 2 shots/ft. and acidized with 500 gal. of 7½% Hcl acid.

Nov. 5 and 6: Swabbed only water from the two zones.

Nov. 7: Squeezed the above zones with 50 (?) sks cement.

Nov. 8: Perforated zone 798' to 810' with 2 shots/ft. Tubing Pressure (surface) at 280# immediately and measured gas flow rate at 25 MCF/D.

Nov. 9: Treated perfs (798' to 810') with 100 gal. of 15% MSR acid. Instant shut-in after treatment was 850#.

Nov. 10: Had no gas. Gas flow dead after treatment.

Nov. 12: Treated zone with 100 gal. of 15% Hcl acid and 900 gal. of methanol and 26 ball sealers.

Nov. 13: Had fair flow of gas after recovery of all treatment fluid. Gas flare was 10 ft. and tubing pressure held at 25#. Small amount of water.

Nov. 15: Tubing Pressure was 260#. Gas flowed at open-flow rate of 250 MCF/D. Had no water.

Nov. 16: Flowed well on 24/64" choke. Flowing at rate of 129 MCF/D of gas and 36 bbl water.

Nov. 17: Flowing gas at rate of 121 MCF/D on 3/8" choke and 26 bbl. water. (Water resistivity is 1.17 ohms at 56°. This is .85 ohms at bottom hole temperature: 81°.) Five minute shut-in tubing pressure is 290#.

Note: Well will be tested periodically; but is now ready for production; and will wait on market arrangements.

GEOLOGIC REPORT
ON
SUPRON #1 MOBIL WELL

Introduction

The Supron Energy Corporation #1 Mobil well was located on the southwest flank of the South Cisco Dome (Cisco Townsite) and was designed to test the possibilities of oil and/or gas production from lenticular sands in the Dakota, Cedar Mountain, and Morrison formations. The principle objective was the Morrison formation since most of the previous oil and gas production on South Cisco Dome was obtained from this formation.

There was also a further geologic reason for the position of the well. Some geophysical information suggested that there was a fault trending southeastward between the chosen well site and the South Cisco Dome structure, and which could offer some fault closure. Predicted depths of the various formation tops prior to the drilling of the well were based on this premise. Results of the well indicated that this fault was probably located farther to the southwest.

The subject well was drilled during the period Oct. 17 to Oct. 21 and completed during Nov. 1 to 15, 1978. Initial production open-flow rate is approximately 300 MCF and the approximate shut-in pressure of the well is 300 p.s.i. The well is completed in a sand lens (798' to 818') at the top of the Salt Wash member of the Morrison. Several other Salt Wash sands were tested thru the 4½" casing which was set at a depth of 1074', below all the potentially productive sands. The lower sands contained water and did not produce any gas.

At present the well is shut-in waiting on market arrangements. The initial production rate is relatively low; but the well may still be cleaning up after a breakdown treatment with acid and methanol. The flow rate should increase appreciably as the well is 'bled-off' periodically and allowed to clean-up completely. Heavy mud had to be used to kill the well while logging and running casing and some of the mud has undoubtedly penetrated the reservoir sands causing some damage.

General Geology

As noted above, the subject well is located on the southwest flank of the South Cisco Dome Anticline. The South Cisco Dome is an irregular and gentle dome which has about 200 feet of closure. It has often been called the Cisco Townsite Field and has had spasmodic oil and gas production since 1927. The Dome is located in the SE. corner of T 21S, R 23E, and the SW. corner of T 21S, R 24E; and covers about 12 sections. Some recent drilling (1976 to present) on the north flank of the dome has been successful in extending the productive area of the dome much further to the north. However, it should be noted that the production from the lenticular sands in the

Dakota, Cedar Mountain, and Morrison formations is not completely dependent on favorable structural positions; since the lenticularity of the sands can provide the necessary trapping mechanism.

Most of the production on the South Cisco Dome has been oil from the Morrison (Salt Wash) formation. Some gas production has also been found. A recent well, 1977, on the north flank has produced natural gas at the rate of 750 MCF per day for nearly one year. As of July, 1978, this well in Sec. 11, T 21S, R 23E has produced approximately 200 million cubic feet of gas. There has also been some good shows of oil in the Entrada formation at Cisco, but no sustained production.

In general, South Cisco Dome is located on the northward and west flank of the Uncompahgre Uplift. Granite underlies the Dome at depths of something less than 3000'. The Chinle or younger Triassic sediments rest on the granite. The Dome is just north (approx. 4 miles) of the southeastward trending Uncompahgre Fault. This is not really a true fault; but rather a steep barrier slope along the flank of the Uncompahgre Uplift which was rising from late Mississippian up thru lower Triassic time. The Uplift then subsided and late Triassic, Jurassic, Cretaceous, and early Tertiary sediments were deposited over the northern end (if not over all) of the uplift. The feature was again uplifted during later Tertiary time.

The Dome is thus located on the edge of a minor hingeline with the Paradox Basin to the southwest and the Uinta and Piceance Basins to the north and northeast; thus making its location highly suitable for the receipt of hydrocarbons generated in these basins. It is believed, however, that the hydrocarbons found in the Cisco area to date are the result of local favorable environmental conditions existing during or shortly after the deposition of the host sediments. Migration from long distances probably did not occur. The host sediments are generally discontinuous and do not offer uninterrupted migration paths. The shelf environment with aggrading type streams, flood basins, outwash plains, and deltaic development did offer ample opportunity for the deposition of favorable reservoir sands. Likewise, the intervening and overlying continental and marine shales, limestones, siltstones, and coal-carbonaceous zones

suggest a favorable environment for the generation of hydrocarbons. The Mancos marine shales overlie the whole area and could have provided adequate source material. It should be noted that the Mancos shales are in juxtaposition with all of the potential host beds along the Uncompahgre fault line to the west.

Stratigraphy and Hydrocarbon Shows

The Supron #1 Mobil well had a normal stratigraphic sequence of sediments. The thickness of the formations was also normal. The sand development, however, in the Dakota, Cedar Mountain, and upper Morrison (Brushy Basin member) formations was very poor. Some sandstone beds were present but were generally dirty, very-fine-grained, and tight.

The top of the Dakota formation was encountered at 390 feet according to the E-logs. The first hydrocarbon shows were seen in the samples at 420' to 460', in a light gray, very-fine-grained, bentonitic sandstone. The shows were limited to gas odor and a slight oil cut. The Dakota was about 60 feet thick in this well.

The Cedar Mountain formation was topped at 450 feet and the samples indicated a very-fine-grained, dirty, light brown sandstone at this point with gas odor and a slight cut. The later E-logs confirm the presence of a tight and dirty sand at this point. Another sand at 470' to 490' was seen in the samples. This sand was medium-grained, rounded, wet, and had no shows. Conversion to mist-drilling had to be made at this point. Other sands were found at 500' to 540' which varied from medium-grained, to fine-grained, to conglomeratic with shale inclusions. None had any hydrocarbon shows. The Cedar Mt. was about 100 feet thick in this well.

The top of the Brushy Basin member of the Morrison was reached at 540' (548' according to the E-logs) where the first green shale was encountered. The Brushy Basin section contained no attractive sands and no shows of hydrocarbons. The Salt Wash member was topped at 790 ft. The top sandstone bed from 800' to 820' was medium-grained, clear, rounded, with scattered light blue fluorescence, with specks of black residual oil; and had a

good oil cut and odor. A flare of gas (25 ft. long on connections for 2 seconds) was obtained when this sand was penetrated, and the flares were continuous on each connection from this point to total depth. Three additional sands, ranging in thickness from 12 to 20 feet were drilled between 820' and 950', but these sands did not contain any shows of hydrocarbons. However, the E-logs indicated good porosities (11% to 16%) and fairly low water saturations (47% to 80% using 0.85 ohms for Rw). The formation water may be much fresher in the sands this near the outcrop than that found in the reservoir sands which are further removed from the outcrop. The induction log, however, shows very high resistivities in all of these sands.

The next sand in the Salt Wash section which had hydrocarbon shows was at 940' to 960' in the samples and at 950' to 960' on the E-logs. This sand had streaks of black residual oil with scattered fluorescence. The sand was fine-grained to medium-grained, and rounded. The E-logs indicate a porosity of about 13% and a water saturation of about 65% in this sand.

A further Salt Wash sand at 970' to 1000' had streaks of black residual oil with fluorescence and cut. The sand was medium-grained, clear, and rounded. The E-logs suggest a porosity of 19% and a water saturation of 50%.

Other sands occurred in the section from 1010' to 1060'. Some were medium-grained to fine-grained with slight fluorescence, and had some residual black oil specks; but did not appear to be prospective zones and probably contained water. The E-logs, however, showed high resistivities, but poor porosities (8% to 11%), and fairly high water saturations (85%) in these sands. The overall thickness of the Morrison was about 480' in this well.

The Curtis-Summerville section was probably encountered at 1030' at the top of green, glauconitic shale, red shale and siltstone. A marked change in the drilling rate also occurred at this point. The E-logs also confirm this point as the probable top. This section was about 70 feet thick and had a slight show in a sand at 1050' to 1060'; but the E-logs indicate low porosity (11%) and high water saturation (85%).

The top of the Entrada was found at 1100'; and the samples consisted of a clear to tan, medium-grained, rounded sandstone at this point. The well was drilled to a depth of 1130' and logged. During the logging operations, the well tried to 'blow-out' and it was necessary to interrupt the logging operations to weight-up the mud to about 9.8 lb/gal. to get the well back under control, so that the logging operations and the later running of casing could continue.

The formations with their tops, thicknesses, and datum points which were encountered in the subject well, as determined from the electric logs, are as follows:

Formation	Depth to Top	Thickness	Datum
Mancos	Surface	390'	4362' K.B.
Dakota *	390'	60'	3972'
Cedar Mountain	450'	98'	3912'
Morrison (Brushy B.)	548'	244'	3814'
(Salt Wash)*	792'	238'	3570'
Curtis-Summerville*	1030'	70'	3332'
Entrada	1100'	—	3262'
Total Depth	1130'		

*Formations with hydrocarbon shows.

Comparison of the subject well data with that from some of the other wells on South Cisco Dome indicates that the subject well is only about 50 feet lower structurally than the highest well on the Dome. Thus it is apparent that the well is located on a southwesterly trending anticlinal nose on the southwest flank of the structure; and on the northeast and upthrown side of a southeasterly trending fault located about ¼ mile southwest of the well site.

A detailed descriptive log of the samples from the #1 Mobil well from 400' to total depth is attached hereto.

Gas Reserves

The #1 Mobil well is completed as a productive natural gas well in a sand in the Salt Wash formation. The sand at 798' to

818' has about 20% porosity and 45% water saturation. Because of the erratic nature of the lenticular sand lenses in the area, the areal extent of the reservoir is difficult to estimate. Based on experience and information on adjacent areas, it is doubtful that each sand lens will cover more than about 100 acres and that a well will not drain a greater area than this. The shut-in pressure of the #1 Mobil well is about 300 p.s.i.g. and the initial open-flow rate of gas is about 300 MCF and about 25 bbl. of water per day.

A volumetric calculation of the recoverable gas reserves on the subject well, assuming 85% recovery would be approximately 165,000 MCF. However, past experience has shown that volumetric calculations, because of all the variables, are not very reliable in estimating reserves in the area. The most reliable parameter to use is the reservoir pressure. After several years of experience and production data, a fairly reliable table of reserves for wells in the general region has been tabulated based on initial reservoir pressures and depth. According to this table, the subject well should have about 150,000 MCF of gas reserves.

Conclusion

The #1 Mobil well is located on the southwest flank of the South Cisco Dome structure and is on a local southwesterly trending anticlinal nose. A southeasterly trending fault is located about ¼ mile southwest of the well site and is downthrown on the south side of the fault. The subject well is only about 50 feet lower structurally than the highest well on the top of the Dome.

The #1 Mobil well is completed as a natural gas well in the top sand of the Morrison-Salt Wash section for an initial open-flow rate of about 300 MCF per day and about 25 bbl of water. The well was gauged at 125 MCF per day on a 3/8" choke holding 70# p.s.i., and with a spray of water.

There were six other sands in the Salt Wash section in the well and some of these had good hydrocarbon shows; but, as noted under the completion history, two of these (846' to 860'

and 872' to 896') were tested thru casing and were found to contain nothing or water. The position of the well is relatively close, about 5 miles, to the outcrop of the Morrison sands. Whereas the sands are lenticular and do not communicate with the outcrop, there is probably some flooding of the sands with fresh water by communication thru fault zones and fracturing.

The natural gas reserves in the subject well are estimated to be approximately 150,000 MCF which, at present prices, should provide a net return on the investment of 3 to 4 times over the next 5 to 7 years.

It is recommended that all future wells to be drilled in the area be located further to the north, away from the outcrops and at deeper depths.

W. Don Quigley

W. Don Quigley
Consulting Geologist
AAPG Cert. #1296
APGS Cert. #3038

STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

September 30, 1982

Florida Eploration Company
P. O. Box 5025
Denver, Colorado 80217

Re: Well No. State Mobil
#26-21-23 #1
Sec. 26, T. 21S, R. 23E.
Grand County, Utah

Gentlemen:

This office received a Sundry dated August 30, 1982, from your office, stating information about the above well. According to our files, Supron Energy is the current operator of this well. If you have taken over operations on this well, please send in an operator name change stated on a Sundry Notice OGC-1b (enclosed). If you have not taken over responsibility on this well, please explain why your office is sending in the forms for Supron Energy.

Thank you for your prompt attention to the above matter.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cari Furse

Cari Furse
Clerk Typist

CF/cf
Enclosure

Form OGC-1b

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry hole

2. NAME OF OPERATOR
Florida Exploration Company

3. ADDRESS OF OPERATOR
3151 S. Vaughn Way Suite #200 Aurora CO 80014

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
500' FSL & 1820' FWL

5. LEASE DESIGNATION AND SERIAL NO.
ML-28226

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
State

9. WELL NO.
Mobil 26-21-23 #1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 26 T21S R23E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR 4350'

12. COUNTY OR PARISH
Grand

13. STATE
Utah

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☐	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐				
(Other) Change of Operators			✓	(Other)			☐

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. 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 depths for all markers and zones pertinent to this work.)*

By this notice Supron Energy Corporation wishes to transfer operations of this well to Florida Exploration Company,

3151 South Vaughn Way, Suite #200
Aurora, CO 80014

RECEIVED
APR 26 1983
DIVISION OF
OIL, GAS & MINING

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

SIGNED Kathy A. Shea TITLE Production Technician DATE 4-19-83

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

Form OGC-1b

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry Hole

2. NAME OF OPERATOR: Florida Exploration Company

3. ADDRESS OF OPERATOR: P.O. Box 5025 Denver, CO 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 500' FSL & 1820' FWL

5. LEASE DESIGNATION AND SERIAL NO.: ML-28226 ✓

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: State ✓

9. WELL NO.: Mobil 26-21-23 #1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec 26 T21S R23E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): GR 4350'

12. COUNTY OR PARISH: Grand

13. STATE: UT

16. Check Appropnate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	☒	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☒ ✓
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. 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 depths for all markers and zones pertinent to this work.)*

Florida Exploration Company, the operator for Supron Energy Corporation requests permission to plug and abandon the captioned well. We propose to set a CIBP above the perfs which are located at 798-810' w/2 sx cmt above the plug, to cut off the casinghead and set a 10 sk surface plug and installing the appropriate dry hole marker.

Completed 9/29/82. ✓ As per plugging program.

RECEIVED
APR 26 1983 ✓
DIVISION OF OIL, GAS & MINING

*APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/29/82
BY:
ADVISE THE DIVISION WHEN LOCATION IS READY FOR INSPECTION

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

SIGNED Patricia J. Roberts TITLE Tech Asst/Prod Dept DATE 8/30/82

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

DIVISION OF OIL, GAS AND MINING

RECEIVED
APR 26 1983
DIVISION OF
OIL, GAS & MINING

PLUGGING PROGRAM

NAME OF COMPANY: FLORIDA EXPLORATION COMPANY

WELL NAME: Mobil 26-21-23 #1

SECTION 26 TOWNSHIP 21S RANGE 23E COUNTY Grand

VERBAL APPROVAL GIVEN TO PLUG AND ABOVE REFERRED TO WELL IN THE FOLLOWING MANNER:

TOTAL DEPTH: 1130'

CASING PROGRAM:

8 5/8", 24#, 134' KB. 60 sx cmt

4½", 10.50#, 1074' KB, 200sx cmt.

FORMATION TOPS:

	MANCOS	surface
*	DAKOTA	390'
	CEDAR MOUNTAIN	450'
	MORRISON (Brushy B.)	548'
*	Salt Wash	792'
*	CURTIS-SUMMERVILLE	1030'
	ENTRADA	1100'

* Formations with Hydrocarbon shows.

PLUGS SET AS FOLLOWS:

9/29/82: TOH with 24 jts 2 7/8" , J-55, 4.70# tbg with UNI-1 pkr. RU Dyna-jet and set CIBP @ 750' & dump 2 sx cmt plug on top. Pull slips & cut off well head , install 10 sx surf plug with Dry Hole Marker. Rig Released @ 4:30 p.m.

DATE April 19, 1983 SIGNED Kathy Ann Shea