

This well was originally drilled by and Oil Company State #1

FILE NOTATIONS			
Entered in NID File	<input checked="" type="checkbox"/>	Checked by Chief	<u>PWB</u>
Entered On S R Sheet	<input type="checkbox"/>	Copy NID to Field Office	<input checked="" type="checkbox"/>
Location Map Pinned	<input checked="" type="checkbox"/>	Approval Letter	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>	Disapproval Letter	<input type="checkbox"/>
IWR for State or Fee Land	<input type="checkbox"/>		
COMPLETION DATA:			
Date Well Completed	<u>6-30-64</u>	Location Inspected	<input type="checkbox"/>
OW _____ WW _____ TA _____		Bond released	<input type="checkbox"/>
GW _____ OS _____ PA <input checked="" type="checkbox"/>		State of Fee Land	<input type="checkbox"/>
LOGS FILED			
Driller's Log	<u>72-64</u>		
Electric Logs (No.)	<u>1</u>		
E _____ I _____ E-I <input checked="" type="checkbox"/>		GR _____ GR-N _____	Micro _____
Lat _____	Mi-L _____	Sonic _____	Others _____

6/1/69 K.D. Luff assumed operations of this well from Mc Lish & Miracle

10-1-77 Flying Diamond assumed operations from Kenneth Luff Inc

WLC 4-22-9

Dale Armstrong called on 1-27-64 and informed us of the new footage loc on. He stated that a corrected plat would follow.

Jan 19, 1965

Red Nevins of Chevron Oil Company stated that someone in his company the remark that surface casing was sticking out of the hole and leaning at an angle

PWB

8 5/8" @ 28# = H 40 grade

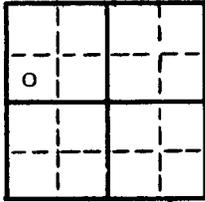
H. P. McKish plans to Plug Back well 4-20-67 S.P. & Converted to H. W.

REWORK

FILE NOTATIONS	
Entered in NID File	<input checked="" type="checkbox"/>
Entered On S R Sheet	<input type="checkbox"/>
Location Map Pinned	<input checked="" type="checkbox"/>
Card Indexed	<input checked="" type="checkbox"/>
I W R for State or Fee Land	<input type="checkbox"/>
COMPLETION DATA:	
Date Well Completed	<u>1/19/65</u>
OW <input checked="" type="checkbox"/> WW <input type="checkbox"/> TA <input type="checkbox"/>	Location Inspected
GW <input type="checkbox"/> OS <input type="checkbox"/> PA <input type="checkbox"/>	Bond released
	State of Fee Land
LOGS FILED	
Driller's Log	<u>7-12-65</u>
Electric Logs (No.)	<u>2</u>
E _____ I _____ E-I _____ GR _____ GR-N _____ Micro _____	
Lat _____ Mi-L _____ Sonic _____ Others _____	

(SUBMIT IN DUPLICATE)

LAND:



STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

STATE CAPITOL BUILDING
SALT LAKE CITY 14, UTAH

Fee and Patented.....
State
Lease No. ML-1541
Public Domain
Lease No.
Indian
Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill.....	<input checked="" type="checkbox"/>	Subsequent Report of Water Shut-off.....	<input type="checkbox"/>
Notice of Intention to Change Plans.....	<input type="checkbox"/>	Subsequent Report of Altering Casing.....	<input type="checkbox"/>
Notice of Intention to Redrill or Repair.....	<input type="checkbox"/>	Subsequent Report of Redrilling or Repair.....	<input type="checkbox"/>
Notice of Intention to Pull or Alter Casing.....	<input type="checkbox"/>	Supplementary Well History.....	<input type="checkbox"/>
Notice of Intention to Abandon Well.....	<input type="checkbox"/>		<input type="checkbox"/>

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

Well No. State 1 is located 2110' FSL ft. from 1980 line and 530' FWN ft. from 660 line of Sec. 2
Section 2 7 South 21 East S1M
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wild Cat Uintah Utah
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5075 feet. estimated. ✓

A drilling and plugging bond has been filed with Dale Barton Agency.

DETAILS OF WORK

(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.)

Uinta gas sands estimated 3000'.
10-3/4" surface casing to 450' to be thoroughly cemented.
Surface formation Duchesne River unconsolidated.
Anticipated spud date January 30, 1964.

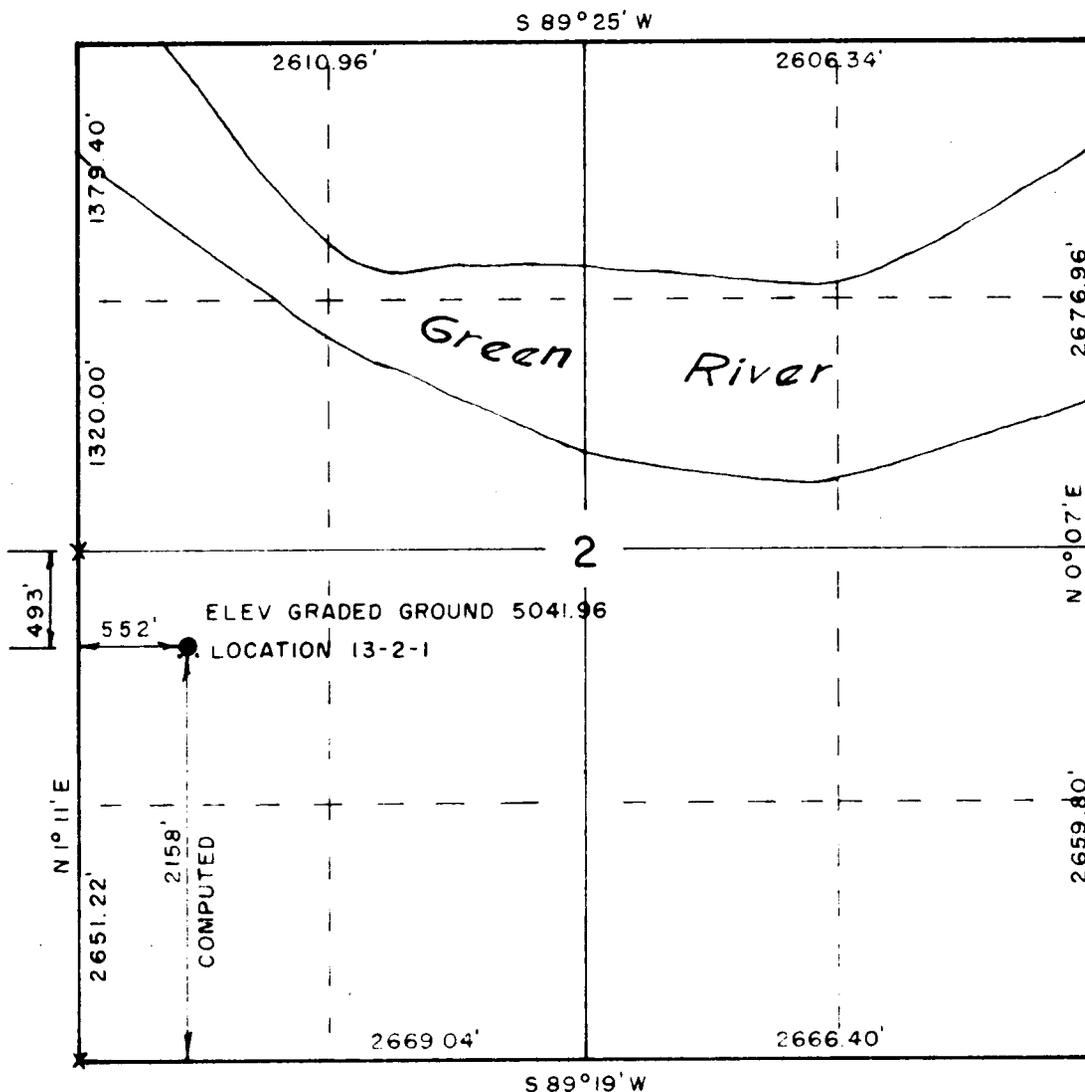
I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

Company... SAND OIL CO.
Address... 907 Walker Bank Building
Salt Lake City, Utah

By Dale E. Armstrong
Title... President

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.

T7S, R21E, SLB & M



X= Corners located (brass caps)

Scale: 1"=1000'

UINTAH ENGINEERING
& LAND SURVEYING

P. O. Box 330
Vernal, Utah

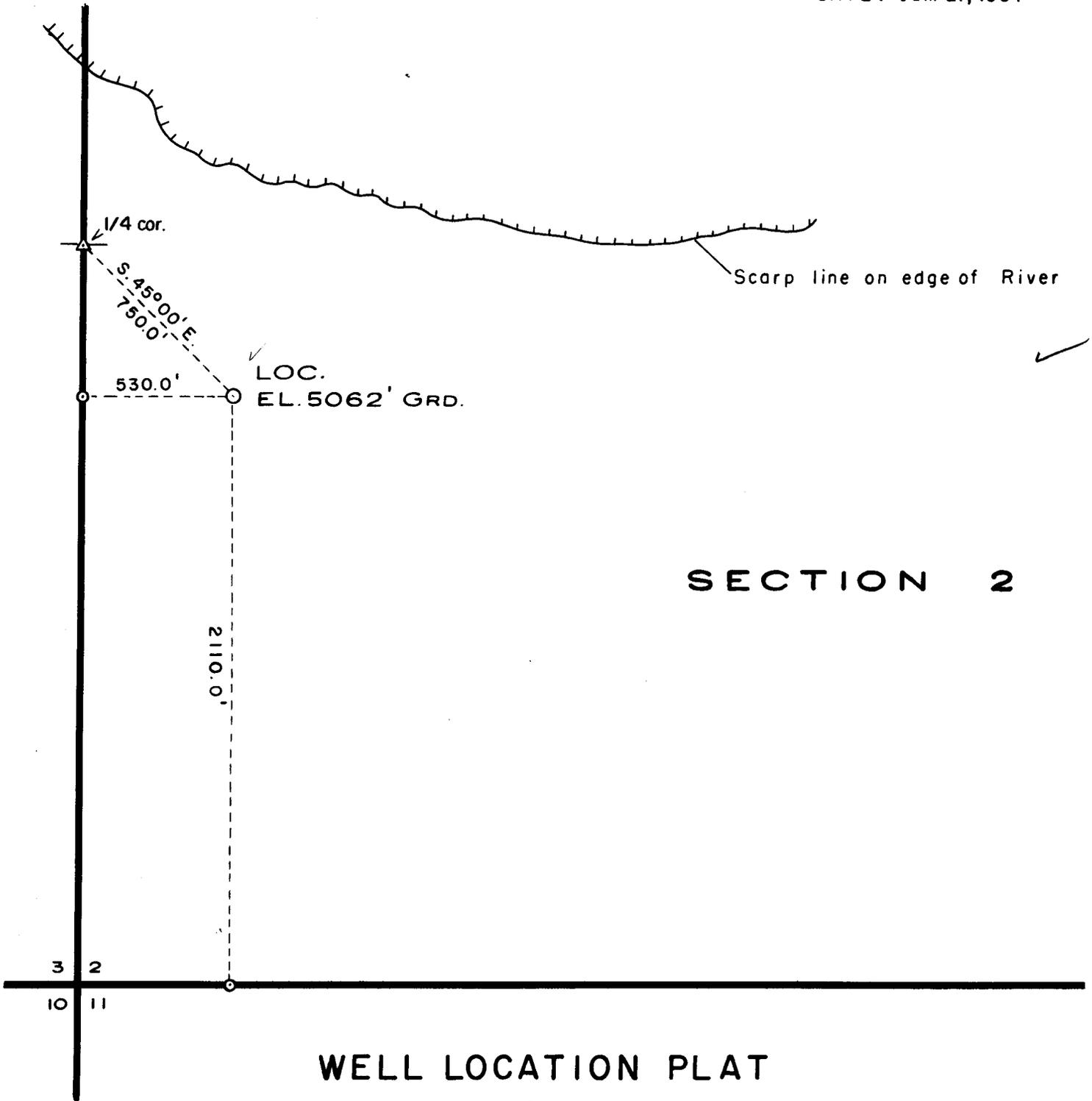
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Richard J. Marshall
Registered Land Surveyor
Utah Registration No. 2451

<p>PARTY G. Stewart R. Stewart WEATHER Fair-Cool</p>	<p>SURVEY PACIFIC NATURAL GAS EXPLORATION CO. WELL LOCATION 13-2-1, LOCATED AS SHOWN IN THE NW 1/4, SW 1/4, SEC 2, T 7S, R 21E, SLB & M. UINTAH COUNTY, UTAH.</p>	<p>DATE NOV. 4, 1964 REFERENCES BLM. Plat Approved 5/1/1964 FILE PAC. NAT GAS</p>
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SURVEYED BY : W. Don Quigley

DATE : Jan. 27, 1964



WELL LOCATION PLAT
for
SAND OIL COMPANY
No. 1 State

NwSw., Sec. 2, T.7S., R.21E., S.L.M.
UINTAH CO., UTAH



W. Don Quigley

1

CORE DESCRIPTION
HORSESHOE BEND NO. 13-2-1

Core No. 1 6939-6993 - recovered 54 feet

<u>DEPTH</u>	<u>DESCRIPTION</u>
6939-6940	Slst - v/fn, lt tan, hd, tite, argil, cal.
6940-6942	LS - tan to buff, dnse, w/abun ool & ostracods
6942-6946	LS - buff, crsly xlyn, v/ dnse, hd, scatt ool, scattered trs of staining, pale yellow fluor, w/fair cut
6946-6948	LS - as above, becoming dk bn.
6948-6949	Slst - v/fn gr, cal, scattered ool, hd, v/tite, pale yellow fluor w/faint cut
6949-6950.5	Slst - as above grding to Ss v/fn gr, calcareous, scatt. ostracods, tr. faint fluor, v/dull - pale yellow; w/ faint cut
6950.5-6952	Sh - dk gy, v/hd, brit, dolomitic, w/scatt ostracods
6952-6953	Sh - pale green, hd, brit
6953-6955	Sh - dk gy, v/hd, brit, dolo
6955-6956	Sh - pale green, v/sft, soapy or greasy luster
6956-6959	Sh - pale green to dk gy, hd, brit w/cal inclusions, scatt ostra
6959-6960	Sh - dk gy, v/hd, brit, dolomitic
6960-6963	Sh - dk gy, med sft, soapy appearance
6963-6965	LS - buff to lt gry, ost., dnse, brit - pale yellow fluor
6965-6967	LS - aa w/Sh 2" to 4" bands - dk gy, hd, brit, cal
6967-6969	Sh - dk gy, v/hd, brit, dolomitic
6969-6970	Sh - lt gy, w/abun cal incl.
6970-6971	Sh - as above w/abun fossils
6971-6972.3	Sh - dk gy v/cal, hd, brittle
6972.3-6973	Slst - v/fn, w/abun cal material, scatt ost.
6973-6974	Sh - dk gy, cal, v/hd, brit
6974-6975	Slst - fn, wt, hd, dnse, w/abun calcareous material

- 6975-6979 Sh - pale gy, hd, dnse
- 6976-6978 SS - fn gr, fria, buff, rd to sub rd, good sorting, w/solid dk bn, oil staining, solid brt yell. fluor, w/ex streaming cut, w/SS bands wt, fn, fria, cal, no shows.
- 6978-6982 SS - fn-med gr, rd to sub rd, fair to good sorting, friable, w/solid dk bn oil stain, w/solid brt yell. fluor with ex. streaming cut.
- 6982-6983 SS - fn gr, wt, sub rd, hd, tite, cal, no stain or show
- 6983-6985 SS - as above (6978 to 6982)
- 6985-6986 SS - fn gr, fria, wt, sub rd, cal, no shows
- 6986-6987 SS - fn gr, rd-sub rd, fair sorting solid stain and fluor, w/ex. streaming cut
- 6987-6988 SS - aa w/sh dk gy, med hd, fissil
- 6988-6991 Sh - dk gy, brit, v/hd, dolomitic
- 6991-6992 Slst - v/fn, hd, tite, v/cal
- 6992-6993 SS - v/fn gr - fn gr, wt, sub ang, fair to poor sorting no shows.

WTT:pn

PMB

CORE DESCRIPTION
HORSESHOE BEND NO. 13-2-1

Core No. 2 6993-7018 - Cut 25' recovered 23'

<u>DEPTH</u>	<u>DESCRIPTION</u>
6993-6994.5	Slst - v/fn gr, gy, sli cal, v/hd and tight
6994.5-6998	Sh - gy to pale grn, greasy appearance, scatt cal incl w/scatt ostra
6998-7000	Ls - tan-gy, ost, hd, dnse
7000-7001	SS - v/fn gr, gy to grn, qtz, tite, sli cal, spotty v/pale yellow fluor w/a fair cut
7001-7002	SS - aa, becoming qtzitic, no shows
7002-7003	SS - v/fn gr, qtz, ang to sub-ang, fair sorting, sli cal w/ a v/pale dull yellow fluor w/fair cut. Vertical frac.
7003-7004	Slst - gy-wt, v/cal, no show, vertical frac.
7004-7005	Slst - aa, becoming qtzitic - w/SS v/fn, wt, hd, tight sub ang - fair sorting - no show - vertical frac.
7005-7007	SS - aa, vertical frac
7007-7008	Sh - gy, v/hd, w/pale wt cal incl, w/scatt pyrite incl vertical fractures
7008-7009	Slst - dk gy, hd, tight, appears sil
7009-7010	Sh - v/sft, gummy w/colors ranging from red - bn - grn.
7010-7011	Sh - gy to grn, greasy luster, hd, brit
7011-7016	Sh - gy to grn to red, med hd, w/abun scatt orange qtz grns.
7016-7018	No recovery, barrel jammed.

WTT:pn

DMM

CORE DESCRIPTION
HORSESHOE BEND NO. 13-2-1

Core No. 3 (7236'-7304') - Recovered 68'

<u>DEPTH</u>	<u>DESCRIPTION</u>
7236'-7240'	SS - wt, fn-v/fn gr, fria, sub rd - sub ang, fair sorting, fair poro & perm; v/sparcely spotted, lt - brt blue fluor, w/v/faint cut
7240'-7241'	Sh - gy hd dense, sli cal, hd
7241'-7245'	SS - as - 7236'-7240'
7245'-7253'	SS - fn - med gr, gy to wt, v/fria, rounded, fair sorting, scatt clorite incl, good perm & poro
7253'-7254'	SS - as above w/decrease in gr size and becoming shly at bottom
7254'-7255'	SS - wt, fn gr sli cal, fria, fair sorting, fair poro & perm, scatt spotty brt blu fluor, w/faint cut
7255'-7256.5'	Sh - gy hd, dense, cal
7256.5'-7257.5'	SS - wt fn gr fria, sli cal, appears tight
7257.5'-7266'	Sh - gy-reddish bn, med hd, slty
7266'-7269'	Sh - red to purple, med hd, v/slty
7269'-7274'	Sh - dk purple modd w/brn, med hd, slty, w/lis nodules approx 1/2" in diameter
7274'-7275'	Sh - bn, med hd, v/slty, sli cal
7275'-7277'	Sh - reddish bn v/slty w/moddled slst v/fn-fn gy sli cal
7277'-7283'	Sh - red v/slty, med hd, sli cla, scatt, gy slty inclusions
7283'-7286'	Sh - dk bn to purple, slty, sli cal, fissil, med sft
7286'-7289.5'	SS - fn gr, gy to wt, slty in pt, med fria
7289.5'-7291'	Sh - red to gy modd app. v/slty, hd
7291'-7293'	Sh - red to brn - med hd, not slty
7293'-7295'	Sh - rd to bn, med hd, sli cal, slty
7295'-7299.5'	Sh - chocolate bn, v/slty, med hd
7299.5'-7301'	Slst - fn gr, gy, sli cal, hd
7301'-7302'	SS - v/fn gr gy to gyish wt, slty & shly in pt

PMB

<u>DEPTH</u>	<u>DESCRIPTION</u>
7302'-7303'	Slst fn gy, grding to sh, gy, had, siliceous app.
7303'-7304'	Sh - rd to gy, slty, med hd, sli cal

WTT/chd
3-9-65

PMB

CORE DESCRIPTION
HORSESHOE BEND NO. 13-2-1

Core No. 4 (7356'-7386') - Recovered 30'

<u>DEPTH</u>	<u>DESCRIPTION</u>
7356'-7361.5'	SS - fn to v/fn gr, gy to wt, sli cal, fria, sub ang, fair sorting, w/tr brt blu fluor with a v/faint cut
7361.5'-7362'	Sh - gy, dnse, med hd, fissil, wxy luster
7362'-7366'	SS - fn gr, buff to wt, sub ang, fair sorting
7366'-7369'	SS - as above w/occa thin gray sh lam
7369'-7374.5'	SS - fn gr, gy to wt, fria, sub rd to sub ang, fair sorting
7374.5'-7376.5'	SS - as above w/abun sh - lam, gy to pale grn, fiss
7376.5'-7381'	SS - fn gr, gy to wt, sub ang, fair to poor sorting
7381'-7381.5'	SS - aa and becoming v/slty and shly
7381.5'-7385'	SS - fn gr, gy to wt, sub ang, fria, fair sorting, fair poro & perm
7385'-7386'	SS - lt gy, v/slty, dense, tight

WTT/chd
3-9-65

PMM ✓

HORSESHOE BEND NO. 13-2-1 WELL
 Sec 2, T 7S, R 21E
 Uintah County, Utah

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>	<u>Description, Contents, Etc.</u>
Uinta	3738'	3764'	<p><u>DST #1</u> - Open 5 min., shut-in 30 min., open 1 hr., shut-in 30 min. Medium blow of air through test. Recovered 1360' total fluid which included 300' of gas & water cut mud w/trace of oil & 1060' gas cut water (Trona water).</p> <p>IHP 1862# FHP 1862# ISIP 1603# FSIP 1603# IFP 195# FFP 609# Temp. 97°</p>
Green River	4885'	4915'	<p><u>DST #2</u> - Open 5 min., shut-in 60 min., opened with fair blow, had fair blow through-out test. No gas to surface. Recovered 1694' fluid, 10' mud, 350' muddy water w/skim of oil, 1334' salt water.</p> <p>IHP 2446# FHP 2407# ISIP 2116# FSIP 2085# IFP 364# FFP 843# Temp. 129° Water 29000 ppm chlorides</p>
Green River	5340'	5372'	<p><u>DST #3</u> - Tool open 15 min., shut-in 1 hr., open 1 hr., shut-in 1 hr. Strong blow immediately decreasing to weak blow. Gas to surface in 15 min. (too small to measure). Recovered 270' of water cut mud w/scum of oil & 4356' of water w/stain of oil. Water 29,000 ppm chlorides, 17,000 ppm carbonates, 22,000 ppm bicarbonates.</p> <p>IHP 2730# FHP 2720# ISIP 2731# FSIP 2250# IFP 797# FFP 2005#</p>
Green River	6245'	6257'	<p><u>DST #4</u> - Shut-in 1 hr, open 1 hr, shut-in 1 hr. Recovered 5' drilling mud. Opened w/no blow, had weak blow on 15 min. initial opening.</p> <p>ISIP 827# FSIP 630# IHP 3166# FHP 3166# IFP 9# FFP 9# BHT 120°</p>
Green River	6680'	6710'	<p><u>DST #5</u> - Tool open 15 min. w/weak blow. Reset tool - opened w/very weak blow, died in 10 min. Reset tool - opened w/very weak blow, died in 1 min. Tool shut-in 1 hr., open 1 hr. w/no blow, shut-in 1 hr. Recovered 30' of drilling mud w/no show of gas or oil.</p>

PM 1/2

IHP	3352#	FHP	3185#
IFP	62#	FFP	138#
ISIP	314#	FSIP	210#
BHT	139°		

Green River 6975' 6988'

DST #6 - Tool open 5 min., shut-in 45 min., open 2 hrs., shut-in 1 hr. Gas to surface in 23 min., 3' flare on 3/4" choke. Gauged 4 Mcf on 1/8" orifice plate. Recovered 1270' of gas cut oil & 25' of oil & water cut mud. Total recovery 8.2 bbls. fluid. 32.2 gravity at 60' oil.





MAX C. GARDNER
DIRECTOR

THE STATE OF UTAH

STATE LAND BOARD

SALT LAKE CITY, UTAH 84114

January 23, 1964

BOARD MEMBERS

D. R. HENDERSON
CHAIRMAN
M. V. HATCH
C. B. THOMPSON
BRYANT M. DROFT
CHARLES P. OLSON
T. H. BELL

Re: Mineral Lease No. 1541

Sand Oil Company
907 Walker Bank Building
Salt Lake City, Utah

Attention: Dale E. Armstrong, President

Dear Mr. Armstrong:

In reply to your letter dated January 22, 1964, concerning the extension of Mineral Lease No. 1541 by the commencement of drilling operations upon the leased lands please be advised that Section 65-1-89 provides for the granting of a two year extension of the term of a State oil and gas lease by the commencement of drilling operations.

If drilling operations are being diligently prosecuted on the leased lands on the expiration date of this lease, January 31, 1964, the term of the lease will be automatically extended for a term of two additional years. An extension rider will be issued by the State Land Board within thirty days after the expiration of the term and upon application by the lessee and satisfactory showing of due diligence in prosecution of such drilling operations.

It is my understanding that a notice of location has been filed with the Utah Oil and Gas Conservation Commission and that a drilling bond will be filed with this office within a few days.

It would be appreciated if you could inform this office of the date on which the well will be spudded so that someone from this office or the Oil and Gas Commission may be present.

Very truly yours,

DONALD G. PRINCE
ECONOMIC GEOGRAPHER

CC: Oil and Gas Conservation Commission

January 23, 1964

Sand Oil Company
907 Walker Bank Building
Salt Lake City, Utah

Re: Notice of Intention to Drill Well
No. STATE #1, 1980' FNL & 660' FWL,
C SW NW of Section 2, Township 7
South, Range 21 East, Uintah County,
Utah.

Gentlemen:

Insofar as this office is concerned, approval to drill Well No. State #1 is hereby granted. However, this approval is conditional upon a surveyor's plat being filed with this office in accordance with Rule C-4(a), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission. This approval is also conditional upon a bond being filed with the State Land Board.

As soon as you have determined that it will be necessary to plug and abandon the above mentioned well, you are hereby requested to immediately notify the following:

PAUL W. BURGHELL, Chief Petroleum Engineer
Office: DA 8-5771 or DA 8-5772
Home: CR 7-2890
Salt Lake City, Utah

This approval terminates within 90 days if this well has not been spudded within said period.

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling,

Sand Oil Company

-2-

January 23, 1964

particularly assessable near surface water sands.
Your cooperation with respect to completing this form
will be greatly appreciated.

Please have the enclosed "Minimum Safety
Requirements" notice posted in a conspicuous place
on the drilling location.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE DIRECTOR

CBF:cnp

cc: State Land Board
Salt Lake City, Utah

H. L. Coonts, Petroleum Engineer
Oil & Gas Conservation Commission
Moab, Utah

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
Salt Lake City 14, Utah

REPORT OF OPERATIONS AND WELL STATUS REPORT

State Utah County Uintah Field or Lease W. C.

The following is a correct report of operations and production (including drilling and producing wells) for February 7, 1964.

Agent's address 907 Walker Bank Building Company Sand Oil Company

Signed *Wale E. Armstrong*

Phone 328-0306 Agent's title President

State Lease No. ML-1541 Federal Lease No. _____ Indian Lease No. _____ Fee & Pat.

Sec. & 1/4 of 1/4	Twp.	Range	Well No.	*Status	Oil Bbls.	Water Bbls.	Gas MCF's	REMARKS (If drilling, Depth; if shut down, Cause; Date & Results of Water Shut-Off Test; Contents of Gas; and Gas-Oil Ratio Test)
2 NWSW	7S	21E	1					<p>No. of Days Produced</p> <p>Set 152 feet 8-5/8", 28 pd/ft. Surface casing with 50 sx regular and 1 sx Ca cl2. Pumped cement to surface with 20 ft. plug in csg. WOC</p>

NOTE: Report on this form as provided for in Rule C-22. (See back of form.)

FILE IN DUPLICATE

*STATUS: F-Flowing P-Pumping GL-Gas Lift
SI-Shut In D-Dead
GI-Gas Injection TA-Temp. Aban.
WI-Water Injection

April 15, 1964

Sand Oil Company
907 Walker Bank Building
Salt Lake City, Utah

Re: Well No. State #1
Sec. 2, T. 7 S., R. 21 E.,
Uintah County, Utah

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the month of March, 1964, for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission requires that said report be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-1B (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information.

Your attention to this matter will be greatly appreciated. We are enclosing forms for your convenience.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK
RECORDS CLERK

cnp

Enclosure

Joseph H. G. C.

PHB

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

ML-1541

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR SAND OIL CO.		8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR 907 Walker Bank Building, Salt Lake City, Utah		9. WELL NO.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 2, Township 7 South, Range 21 East, S1M		10. FIELD AND POOL, OR WILDCAT
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5062 ground	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
		12. COUNTY OR PARISH 13. STATE

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(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.)*

Waiting on rotary.

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

SIGNED *John E. Gentry* TITLE President DATE April 16, 19

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

W:

OIL & GAS CONSERVATION COMMISSION

5. LEASE DESIGNATION AND SERIAL NO.

ML-1541

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

12. COUNTY OR PARISH 13. STATE

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

SAND OIL CO.

3. ADDRESS OF OPERATOR

907 Walker Bank Building, Salt Lake City, Utah

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

NW 1/4 SW 1/4 Section 2, Township 7 South, Range 21 East, S1M

14. PERMIT NO.

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

5062 ground

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)

(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.)*

Waiting on rotary.

Set 8-5/8" @ 152 w/50.

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

SIGNED

Paul E. Lundberg

TITLE

President

DATE

5-18-64

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY.

OIL & GAS CONSERVATION COMMISSION

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.)

5. LEASE DESIGNATION AND SERIAL NO.
ML-1541

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA

12. COUNTY OR PARISH | 13. STATE

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
SAND OIL CO.

3. ADDRESS OF OPERATOR
907 Walker Bank Building, Salt Lake City, Utah

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 2, Township 7 South, Range 21 East, SLM

14. PERMIT NO. | 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5062 ground

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

NOTICE OF INTENTION TO :		SUBSEQUENT REPORT OF :	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)*

Waiting on rotary. ✓
Set 8-5/8" @ 152 w/50.

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

SIGNED *Paul E. Armstrong* TITLE President DATE 6-15-64

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

orig to Bee
1 copy kgw
1 copy hlc

PLUGGING PROGRAM FORM

Name of Company SAND OIL CO Verbal Approval Given To: BOB MANLY
Well Name: #1 STATE Sec. 2 T. 7S R. 21E County: UINTAH

Verbal Approval was given to plug the above mentioned well in the following manner:

T. D. 3400'
Top Uintah 3000' (?)
MAY HAVE some small GAS ZONES in bottom A.R.D. 3350'±.
HAD no water, oil or GAS SHOWS ABOVE 3000'

PLUGS

- Run 100' + across possible GAS ZONES (3250'-3350')
- Run 50' @ 1500 (stabilizer)
- Run 50' @ 775-125' across surface pipe shoe @ 150'
- Run 10' @ surface set marker

Will begin plugging around 6 or 7 PM. 6/29/64

CONFIDENTIAL

Released

Date Verbally Approved: JUNE 29 1964 Signed: Nancy Lamb

orig to Bee
1 copy kgw
1 copy hlk

PLUGGING PROGRAM FORM

Name of Company SAND OIL Co Verbal Approval Given To: Bob MANLY

Well Name: #1 State Sec. 2 T. 7S R. 21E County: UINTAH

Verbal Approval was given to plug the above mentioned well in the following manner:

T. D. 3400'
Top Uintah 3000' (?)
MAY HAVE some small GAS ZONES in bottom ARO. 3350'±.
HAD no water, oil or GAS SHOWS ABOVE 3000'

PLUGS

- Run 100'± across possible GAS ZONES (3250'-3350')
 - Run 50' @ 1500 (stabilizer)
 - Run 50' @ 775-125' across surface pipe shoe @ 150'
 - Run 10' @ surface set marker
- Will begin plugging around 6 or 7 pm. 6/29/64

Date Verbally Approved: JUNE 29 1964 Signed: Nancy L. Gault



ORIGINAL
 SEND ALL REMITTALS TO
 P. O. DRAWER 1431
 DUNCAN, OKLAHOMA

INVOICE & TICKET
 No. BC 077076
 In Remitting or Corresponding
 Please Refer to Above Invoice Number.

984 R9

DATE 6-29-64	CUSTOMER'S ORDER & REQ. NO.	SERVICE TICKET NO. 681450	SEC.	TWP.	RANGE	TRUCK CALLED OUT 6-29 DATE 7:30 AM P.M.	ON LOCATION 6-29 DATE 9:45 AM P.M.	JOB STARTED 6-29 DATE 1030 P.M.	JOB COMPLETED 6-30 DATE 2:30 AM
WELL NO. AND FARM 1 State		PLACE OR DESTINATION South Jensen				COUNTY Uintah	STATE Utah		
TYPE OF WELL 1 <input type="checkbox"/> WORKOVER 3 <input type="checkbox"/> DEVELOPMENT		2 <input checked="" type="checkbox"/> EXPLORATORY 4 <input type="checkbox"/> OTHER		OWNER Sand Oil Company			CONTRACTOR Calvert Drilling Co.		

DUNCAN USE ONLY	SAND OIL COMPANY 907 WALKER BANK BLDG. SALT LAKE CITY, UTAH 778011			CUST. INV. REQ. & <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> Other	DELIVERED TO Sand Oil Company ✓
					PREPARED BY B. R. Sharp
					RECEIVED BY <i>[Signature]</i>
				NO. COPIES	DELIVERED FROM Vernal, Utah

CHARGE TO Sand Oil Company	TERMS: DUE BY THE 20TH OF FOLLOWING MONTH, INTEREST CHARGED AFTER 60 DAYS FROM DATE OF INVOICE \$ 375 Cash discount allowed if paid within this period. \$ 113 Tax adjustment may be deducted if discounted
MAILING ADDRESS 907 Walker Bank Building	
CITY & STATE Salt Lake City, Utah	

WT. TICKET NO.	TRUCK NO.	CONVOY NO.	QUANTITY*	BRAND AND TYPE	UNIT PRICE	AMOUNT
142	7377		75	Ideal Type II Cement from Devils Slide, Utah	100	12000

* SACKS UNLESS OTHERWISE INDICATED	SERVICE CHARGE ON MATERIALS RETURNED	UNITS	
We certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to services furnished covered by this invoice.	SERVICE CHARGE	75 UNITS	35
FRANCOED 4445	MILEAGE CHARGE	7050 TOTAL WEIGHT	35
		LOADED MILES FROM PLANT TO WELL	12338 TON MILES

CONDITIONS AND LIMITATIONS COVERING THIS CONTRACT		SUB TOTAL	
It is expressly understood and agreed that Halliburton Company is selling and delivering the material described on this ticket only as a retail dealer and distributor and that Halliburton Company makes no representation or warranties, expressed or implied, except those made by the manufacturer.		UTAH TAX	
It is specifically understood and agreed that Halliburton Company shall not be liable for any unsatisfactory results from the use of such material.		TAX	
It is understood and agreed that Halliburton Company will not be bound by any changes or modifications in the above terms and conditions unless authorized by one of the executive officers in writing.		TOTAL	
			16974



HOWCO #488 R-6

HALLIBURTON COMPANY
OIL WELL CEMENTING COMPANY

NOW HALLIBURTON COMPANY

SEND ALL REMITTANCES TO
P. O. DRAWER
DUNCAN, OKLAHOMA

CEMENTING SERVICE
INVOICE & TICKET
No. CS-681450
In Remitting or Corresponding
Please Refer To Above Invoice Number

DATE 6-30-64	CUSTOMER'S ORDER NO.	CUSTOMER'S REQ. NO.	SEC.	TWP.	Range	TRUCK CALLED OUT DATE 6-29 7:30 P. M.	ON LOCATION DATE 6-29 9:45 P. M.	JOB BEGAN DATE 6-29 10:30 P. M.	JOB COMPLETED DATE 6-30 2:30 A. M.
WELL NO. AND FARM 1 State		PLACE OR DESTINATION W. Red Wash			COUNTY Uintah	STATE Utah			
TYPE OF WELL 1 <input type="checkbox"/> WORKOVER 2 <input type="checkbox"/> EXPLORATORY 3 <input type="checkbox"/> DEVELOPMENT 4 <input type="checkbox"/> OTHER		OWNER Sand Oil Co.			CONTRACTOR Calvert Drylg. Co.				

DUNCAN USE ONLY	SAND OIL COMPANY 907 WALKER BANK BLDG. SALT LAKE CITY, UTAH 778011		CUS. INV. REQ. ORIG. & <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> OTHER	CHARGE TO Sand Oil Co.
			MAILING ADDRESS 907 Walker Bank Bldg.	CITY AND STATE SALT LAKE CITY, UTAH

OWNER, OPERATOR OR HIS AGENT STATES THE WELL IS IN CONDITION FOR THE SERVICE JOB TO BE PERFORMED AND SUBMITS THE FOLLOWING DATA:

TYPE OF JOB (.) ONE	CASING	HOLE DATA	TUBING OR DRILL PIPE	CEMENTING PACKER	MAKE FLOAT EQUIPMENT
SURFACE	NEW	BORE SIZE 7 7/8"	SIZE 3 1/2"	SIZE	FLOAT COLLAR <input checked="" type="checkbox"/>
INTERMEDIATE	USED	TOTAL DEPTH 3255	TYPE I.F.	TYPE	GUIDE SHOE
PRODUCTION	SIZE	ROTARY ✓	WEIGHT 13.30	WEIGHT	FLOAT SHOE
SQUEEZE	WEIGHT	CABLE TOOL	TOTAL DEPTH 3255	DEPTH SET	OTHER EQUIPMENT
PUMPING	DEPTH				
PLUG BACK	TYPE				
GROUTING					
OTHER (write in) P.T.A.					P.R.D.

PURPOSE	SQUEEZE OR PLUG BACK DATA			IN SIZE	BULK SACKS	CEMENT DATA	
	Depth From	TO APPROX.	CASING			HOLE	MIXED WT. PER GAL
WATER	3255	3155		7 7/8"	75	Reg.	Ideal
GAS	1550	1500		7 7/8"			
Abandon	175	125	8 5/8"	7 7/8"			

OTHER DATA ON SERVICE OPERATION

BOTTOM PLUG	TYPE	CIRCULATING PRESSURE 800
TOP PLUG	TYPE	MINIMUM 9
TYPE HEAD		MAXIMUM 1150

CEMENT LEFT IN CASING _____ FT.
 BY REQUEST NECESSITY MEASURED WITH LINE?

The following information is urgently requested in order that we may be fully advised, and to enable us to keep our standard of service up to the highest point.

WAS OPERATION OF THE CEMENTING EQUIPMENT SATISFACTORY? _____ WAS THE WORK OF THE CREW PERFORMED IN A SATISFACTORY MANNER? _____

WAS CEMENTING JOB SATISFACTORYLY COMPLETED? _____ SUGGESTIONS: _____

Walter O. Manly
OWNER, OPERATOR OR HIS AGENT

TRUCK NO. & TYPE	TRUCK LOCATION	TITLE	NAME
5737-58c	Vernal	Cementer	Bradfield
	"	Driver	Vanover
		Cementer	
		Driver	
		Cementer	
		Driver	
		Cementer	
		Driver	

INVOICE SECTION

DEPTH OF JOB	3255 FT.	
PRICE REF.	SERVICE AND RENTAL CHARGES	AMOUNT
R-72	BASE CHARGE	215.00
	EXTRA TRUCK	
	STAND BY TRUCK	
	R-73 - 2 Extra hrs. AT #37/hr.	74.00
	R-1 MILEAGE 10 @ .75	7.50
TERMS	NET 20th of following month. 6% interest charged after 60 days from date of invoice.	SUB-TOTAL
	TAX ADJUSTMENT MAY BE DEDUCTED IF DISCOUNTED	296.50
	This is to certify that the Fair Labor Standards Act of 1938, as amended, has been complied with in the production of goods and/or with respect to the services furnished covered by this invoice.	TOTAL
	PRINTED IN U.S.A.	No TAX

SUBMIT IN DUPLICATE*

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

5. LEASE DESIGNATION AND SERIAL NO.

ML-1541

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

State

9. WELL NO.

#1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 2, T. 7 S., R. 21 E
SLM

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

SAND OIL CO.

3. ADDRESS OF OPERATOR

906 Walker Bank Building, Salt Lake City, Utah

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*

At surface 530' W 2110/S Section 2, T. 7 S., R. 21 E., SLM

At top prod. interval reported below same

At total depth same

14. PERMIT NO. DATE ISSUED

15. DATE SPUNDED 1-31-64 16. DATE T.D. REACHED 6-30-64 17. DATE COMPL. (Ready to prod.) P & A 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 5062 Ground 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD TD 3396 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS Surf - TD CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN Induction electrical log 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	28/	152	10 inch	cement to surface 50 sacks	None

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
None	None

33.* PRODUCTION

DATE FIRST PRODUCTION None PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) None WELL STATUS (Producing or shut-in)

DATE OF TEST HOURS TESTED CHOKE SIZE PROD.N. FOR TEST PERIOD OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO

FLOW. TUBING PRESS. CASING PRESSURE CALCULATED 24-HOUR RATE OIL—BBL. GAS—MCF. WATER—BBL. OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED Jale E. Armstrong TITLE PRESIDENT DATE 7-2-64

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 83, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. **Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND COMMENTS THEREOF; CORED INTERVALS, AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, COMMENTS, ETC.	GEOLOGIC MARKERS	TOE
			No important porosity zone present. No cores or drill-stem tests.	3231 KB	Approx 1 degree deviation
Well plugged and abandoned	June 30, 1964		with 75 sacks cement. Plugs set as follows: 35 sacks from 3155-3255 18 sacks from 1500-1550 19 sacks from 125-180 3 sacks at surface - 10 feet.		

JUL 2 1964

PMB

SAND OIL CO.

601-NEWHOUSE BLDG. 906 Walker Bank Bldg.
P. O. Box 482 11023
SALT LAKE CITY 11, UTAH
PHONE DA 8-0306

✓

July 17, 1964

Mr. Paul W. Burchell
The State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City, Utah 84111

Re: Well No. State #1
Sec. 2, T. 7 S., R. 21 E.,
Uintah County, Utah

Dear Mr. Burchell:

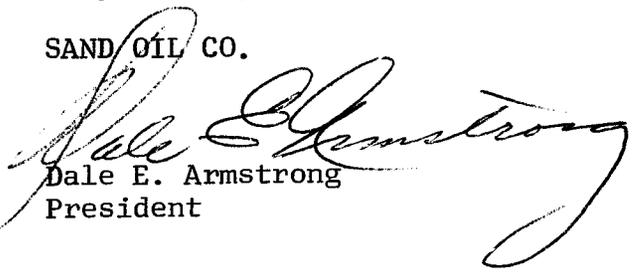
In reference to your letter dated July 16, 1964, I am enclosing the cement tickets for the above-captioned well.

We have the dry hole marker already made but do not plan to level location and put the 10' plug at the surface and install the dry hole marker until Shamrock Oil and Gas Company completes their well in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ Section 3, Township 7 South, Range 21 East, SLM, Uintah County, Utah.

We will notify you upon the completion of the above and you can inspect the location to your satisfaction at that time.

Very truly yours,

SAND OIL CO.


Dale E. Armstrong
President

DEA:sm
Enclosures

DRILLING PROPOSAL
FOR
HORSESHOE BEND WELL NO. 13-2-1
NW SW Sec 2, T 7S, R 21E
Uintah County, Utah
(Formerly Sand Oil Company's State No. 1)

Present mechanical condition of well:

1. Total depth 3396', 7-7/8" hole.
2. Cement plugs at 3255' to 3155'; 1550' to 1500'; 175' to 125'.
3. 8-5/8" casing set at 152'. Well head cut off.

Re-entry and deepening program:

1. Relevel location and enlarge reserve pit.
2. Move in, rig up, weld casing head on surface pipe.
3. Install B.O.P. and pressure test with 750 pounds for 15 minutes.
4. Condition mud for cement contamination and clean out to 3396' with 7-7/8" bit.
5. Employ mud logger and drill ahead with 7-7/8" bit using mud as a circulating medium.
6. Samples will be collected at 10-foot intervals from surface to T.D.
7. Expected tops of formations are as follows:

Uintah	-	Surface
Green River	-	3600'
Green River "B" Marker	-	5921'
Green River Sands	-	6700' to 7200'
Estimated T.D.	-	7400'
8. If significant shows of hydrocarbons are encountered, the Salt Lake City Drilling Department and Geological Department will be notified prior to testing or drilling ahead.
9. After total depth is reached, mechanical logs will be run including I.E.S., Gamma-Ray Sonic Caliper, and Microlog. The rig will be on standby with crew bases until logs are evaluated and orders are given to proceed with operations.
10. If pertinent data warrant, a string of 5-1/2" production pipe will be run to total depth. The equipment on casing and cementing procedure can only be determined after all data obtained are evaluated.
11. Deviation surveys will be run at not more than 200-foot intervals. The deviation will be kept within one degree per 100' of hole drilled with the total accumulative deviation not to exceed one degree per 1,000' of total hole.
12. If production casing is run and cemented, a completion proposal will be submitted at this time.

EEL/chd
10-5-64

PACIFIC NATURAL GAS EXPLORATION COMPANY

366 SOUTH FIFTH EAST STREET

SALT LAKE CITY, UTAH

P. O. BOX 2436 84110

November 2, 1964

Mr. C. B. Feight, Executive Director
State of Utah
Oil and Gas Conservation Commission
348 East South Temple
Suite 301
Salt Lake City, Utah

Re: Horseshoe Bend No. 13-2-1
NW SW Sec 2, T 7S, R 21E
Uintah County, Utah

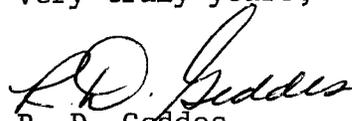
Dear Mr. Feight:

Enclosed is our "Application for Permit to Deepen" the captioned well and a copy of our drilling proposal.

As you know, the well was originally drilled by the Sand Oil Company to a depth of 3396'. Their operations were terminated on June 30, 1964.

Sand Oil Company has furnished you with a location plat, however we are having the location resurveyed and will send you a copy of the survey as soon as it is available.

Very truly yours,


R. D. Geddes
Division Manager

RDG/chd
Enclosures

cc: T. A. Johnson, Jr.
Sand Oil Company

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

Copy NHC

5. LEASE DESIGNATION AND SERIAL NO.
ML-1541

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Not Applicable

7. UNIT AGREEMENT NAME
None

8. FARM OR LEASE NAME
Horseshoe Bend

9. WELL NO.
13-2-1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 2, T 7S, R 21E

12. COUNTY OR PARISH
Uintah

13. STATE
Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Pacific Natural Gas Exploration Company

3. ADDRESS OF OPERATOR
P. O. Box 2436, Salt Lake City, Utah 84110

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
 At surface
2110' FSL & 530' FWL Sec 2, T 7S, T 21E SLM
 At proposed prod. zone
(as above)

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
15 miles south of Vernal, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any)
530'

16. NO. OF ACRES IN LEASE
469.80

17. NO. OF ACRES ASSIGNED TO THIS WELL
80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
7400' *Green River*

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5062' Ground

22. APPROX. DATE WORK WILL START*
11-6-64

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
10"	8-5/8"	28#	152' ✓	50
7-7/8"	5-1/2"	17#	7400' ✓	To be determined as dictated by the mechanical and mud logs. ✓

(See attached drilling proposal) ✓

* Sand Oil Company was the original operator and drilled the well to a depth of 3396', setting 8-5/8" casing at 152'. ✓

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED R. D. Geddes *R D Geddes* TITLE Division Manager DATE 11-2-64

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

November 3, 1964

Pacific Natural Gas Exploration Company
P. O. Box 2436
Salt Lake City, Utah 84110

Attention: Mr. R. D. Geddes, Division Manager

Re: Notice of Intention to Rework Well No.
HORSESHOE BEND STATE #13-2-1, 2110' PSL
& 530' FWL, NW NW SW of Section 2, T. 7 S.,
R. 21 E., SLEM, Uintah County, Utah.

Gentlemen:

Insofar as this office is concerned, approval to rework the above well is hereby granted. However, this approval is conditional upon a bond being filed with the State Land Board.

As soon as you have determined that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL, Chief Petroleum Engineer
Office: DA 8-5771 or DA 8-5772
Home: CR 7-2890 - Salt Lake City, Utah

Enclosed please find Form OGCC-8-X, which is to be completed if water sands (aquifers) are encountered while drilling, particularly assessable near surface water sands. Your cooperation with respect to completing this form will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
EXECUTIVE DIRECTOR

CBF:kgv

cc: Donald G. Prince, State Land Board, Salt Lake City, Utah

H. L. Coonts, Pet. Eng., Oil & Gas Conservation Commission, Moab, Utah

KAW

PACIFIC NATURAL GAS EXPLORATION COMPANY

PMP

366 SOUTH FIFTH EAST STREET

SALT LAKE CITY, UTAH

P. O. BOX 2436 84110

November 5, 1964

Mr. C. B. Feight, Executive Director
The State of Utah
Oil & Gas Conservation Commission
348 East South Temple
Suite 301
Salt Lake City, Utah

Re: Horseshoe Bend State No. 13-2-1
NW SW Sec 2, T 7S, R 21E
Uintah County, Utah

Dear Mr. Feight:

In response to your letter of November 3, 1964, we contacted Mr. D. G. Prince of the State Land Board regarding the status of our bond. Mr. Prince indicated that our blanket bond in the amount of \$25,000 was still in effect and that he would notify you of this.

In addition to submitting periodic sundry notices (history), we will keep you advised informally as to our progress on the well.

Thanks very much.

Very truly yours,

R. D. Geddes
R. D. Geddes
Division Manager

RDG/chd

cc: T. A. Johnson, Jr. (w/attachment)

H.

Copy HRC

D.H.

PACIFIC NATURAL GAS EXPLORATION COMPANY

366 SOUTH FIFTH EAST STREET

SALT LAKE CITY, UTAH [REDACTED]

P. O. BOX 2436 84110

November 9, 1964

Mr. C. B. Feight, Executive Director
The State of Utah
Oil & Gas Conservation Commission
348 East South Temple
Suite 301
Salt Lake City, Utah

Re: Horseshoe Bend State No. 13-2-1
NW SW Sec 2, T 7S, R 21E
Uintah County, Utah



Dear Mr. Feight:

As mentioned in our letter to you of November 2, 1964, we have had the location of the captioned well resurveyed. The original survey indicated the location to be 2110' FSL and 530' FWL. The resurvey shows the location to be 2158' FSL and 552' FWL. The resurveyed location does not conflict with any spacing regulations.

Attached are two copies of the subject survey plat for your files.

Very truly yours,

R. D. Geddes
R. D. Geddes
Division Manager

RDG/chd

Attachments (2)

cc: T. A. Johnson, Jr.
Sand Oil Company

December 21, 1964

MEMO TO THE COMMISSIONERS:

Re: PACIFIC NATURAL GAS & EXPLORATION COMPANY
(Originally drilled by Sand Oil Co. to 3300')
Well No. Horseshoe Bend State #13-2-1
Section 2, T. 7 S., R. 21 E.
Uintah County, Utah

On December 18, 1964, I visited the above named location. The well experienced a blowout at 1:30 this morning and the rig was burned down. The derrick is owned by Willard Pease Drilling Company, and it was estimated that the loss will be around \$250,000.00. The exact pressure and volume of the blowout could not be determined, but it is estimated to be around 2-3 million cubic feet per day. The height of the flames appeared to be reaching approximately 50 feet. While on location, pictures were taken for posterity.

In giving background consideration to the accident, it was learned from Mr. Rod Geddes of Pacific Natural Gas & Exploration Company that they had just completed making a DST between 6680-6710' in the Basal Green River Formation. The tester was pulled back to the surface and subsequent repairs were made on it. The drilling contractor was also making mechanical repairs to the rig. It is my personal opinion that during this lapse of time gas seepage from a Uintah Sandstone member, located at a depth of 3590-6000', began to decrease the weight of the mud. The pressures were then sufficient to overcome the hydrostatic head and allow the mud to become unloaded at the surface. The weight of the mud before being affected by the dissolved gas was around 9.4. As soon as the blowout occurred, the operator closed the blind rams on the blowout preventer which momentarily controlled the flow of the mud and gas. Soon thereafter, the gas broke to the surface through cracks, fishers, and around the outside of the surface casing. The gas then became flammable and all rig hands evacuated the area without any injuries occurring. The original operator, Sand Oil Company, stated on their well log that they had set 152' of 8-5/8" surface casing with 52 sacks of cement to the surface. The operator at first wanted only to set 125', but this Commission told them that the hole would require a minimum of at least 150'.

On December 19, 1964, the Pacific Natural Gas & Exploration Company commenced drilling a relief hole ~~300~~³¹⁵ feet to the east of the burning location. They are presently drilling and will set 500 feet of 8-5/8" surface casing, cement circulated to the surface. They will attempt to encounter the old hole right at a depth of 3600 feet and kill the well and formation with mud.

In view of the above circumstances, it is recommended that in the future drilling operations a minimum of ~~300~~³⁰⁰ feet surface casing, cement circulated to the surface, will be necessary throughout this area.

as soon as the well is under control a final investigation will be made and a report submitted together with any recommendations felt necessary -

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:pcp

cc: Earl Ward-Casper Nelson
Harvey L. Coonts

December 23, 1964

Pacific Natural Gas & Exploration Company
366 South 5th East
Salt Lake City, Utah

Attention: Mr. Rod Geddes

Re: Well No. Horseshoe Bend State #13-2-1
Sec. 2, T. 7 S., R. 21 E.
Uintah County, Utah'

Gentlemen:

It would be appreciated if you would keep me informed as to the progress of the relief hole now being drilled in an attempt to extinguish the above named well. I would like to be present at the location just prior to encountering the objective gas zone. Please allow sufficient time, approximately three hours' notice, so that there will be no delay in operations.

In the event I cannot be reached at the office, my home telephone number is 277-2890.

Your cooperation with respect to this request will be greatly appreciated.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:pcp

Jan 15, 1965

Patricia Nabair → Pacific National Gas

Ran caliper log and found brady 423.

13-2-1 → old

set at 405 ft a bridge plug

58 sb 50-50 cased

on top of brady plug at 405 ft

There were lines on top of plug at 294

13-2-2 →

Ran FES & Sonic
Conditions hole

set squaring packer at 3399

Pumped in 25 bbls mud. (124)

700 psi break down pressure

PMB

XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXX

348 East South Temple
Suite 301
Salt Lake City, Utah
March 1, 1965

Sand Oil Company
906 Walker Bank Building
Salt Lake City, Utah

Re: Well No. State #1
Sec. 2, T. 7 S., R. 21 E.,
Uintah County, Utah

Gentlemen:

We are in receipt of your well log for the above mentioned well. However, upon checking this information, we notice that you did not report the water sands encountered while drilling.

Please complete the enclosed Forms OGCC-8-X, and return to this office as soon as possible.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

CLARELLA N. PECK
RECORDS CLERK

cnp

Enclosure

Handwritten initials
COMMISSIONERS
C. R. HENDERSON
CHAIRMAN
V. HATCH
A. S. THOMSON
B. H. CROFT
C. P. OLSON



PETROLEUM ENGINEERS
PAUL W. BURCHELL
CHIEF ENGINEER
SALT LAKE CITY
HARVEY L. COONTS
BOX 266
MOAB, UTAH

EXECUTIVE DIRECTOR
C. B. FEIGHT

THE STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

~~XXXXXXXXXXXXXXXXXXXX~~
~~XXXXXXXXXXXXXXXXXXXX~~
~~XXXXXXXXXXXXXXXXXXXX~~

348 East Southe Temple
Suite 301
Salt Lake City, Utah
March 1, 1965

Handwritten initials

Sand Oil Company
906 Walker Bank Building
Salt Lake City, Utah

Re: Well No. State #1
Sec. 2, T. 7 S., R. 21 E.,
Uintah County, Utah

Gentlemen:

We are in receipt of your well log for the above mentioned well. However, upon checking this information, we notice that you did not report the water sands encountered while drilling.

Please complete the enclosed Forms OGCC-8-X, and return to this office as soon as possible.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

Handwritten signature: Clarella N. Peck
CLARELLA N. PECK
RECORDS CLERK

cnp

Enclosure

✓ NO RECOGNIZED WATER SANDS ENCOUNTERED. ✓
DALE E. ARMSTRONG

MAR - 4 1965

Handwritten mark

March 5, 1965

Pacific Natural Gas & Expl. Co.
366 South 5th East
Salt Lake City, Utah

Re: Horseshoe Bend State 13-2-1
Sec. 2, T. 7 S., R. 21 E.
Uintah County, Utah

January, 1965

Gentlemen:

Our records indicate that you have not filed a Monthly Report of Operations for the above mentioned month (s), for the subject well. Rule C-22(1), General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGCC-1b (U. S. Geological Survey Form 9-331, "Sundry Notices and Reports on Wells"), or on company forms containing substantially the same information. We are enclosing forms for your convenience.

Your immediate attention is required in this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER
RECORDS CLERK

kgw

Encl: Forms

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN **APPLICATE***
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

MT. 1541

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Not Applicable

7. UNIT AGREEMENT NAME

None

8. FARM OR LEASE NAME

Horseshoe Bend

9. WELL NO.

13-2-1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec 2, T 7S, R 21E

12. COUNTY OR PARISH 13. STATE

Uintah

Utah

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Pacific Natural Gas Exploration Company

3. ADDRESS OF OPERATOR

P. O. Box 2436, Salt Lake City, Utah 84110

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

552' FWL and 2158' FSL
Sec 2, T 7S, R 21E, SLB & M

14. PERMIT NO.

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

5041.96' Ground

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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.)*

- 2-9-65 - Washed over and recovered 142' of 8-5/8" casing.
- 2-10-65 - Reamed hole from surface to 305'. Ran 9 joints 40.50#/foot, J-55, 10-3/4" O.D. casing (298.07') set at 305' K.B. Cemented with 350 sacks regular cement with 3% HA-5.
- 3-8-65 - T.D. 7386'. Set 95 sack cement plug from 7386'-7050'.
- 3-9-65 - Dressed off cement plug to 7070' K.B.
- 3-10-65 - Ran 218 joints of 5-1/2" J-55 casing (10 joints 17#, 208 joints 15.5#). Landed at 7061.56' K.B. Stage collar at 3514'. Cemented first stage with 205 sacks regular cement. Cemented second stage with 80 sacks regular cement.
- 3-12-65 - Cleaned out to 7023'. Ran correlation log. Waiting on completion unit and for weather to improve.

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

SIGNED B. H. Means *B.H. Means* TITLE Completion Engineer DATE 3-17-65

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

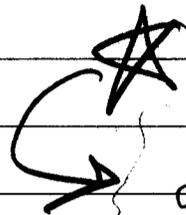
Dale Armstrong → Leasing Oil Co.

March 17, 1965

→ Pressed up after rigging up

Pearce Rig up said device flow not level

Rod Packer →



Jerry Foman
washed Heland Rose

banded top of pipe
and cleaned

5 times
with acetone

plus possible wearing from
bit or history

Celvest → pressed up twice

8

180,000 + salvage rights

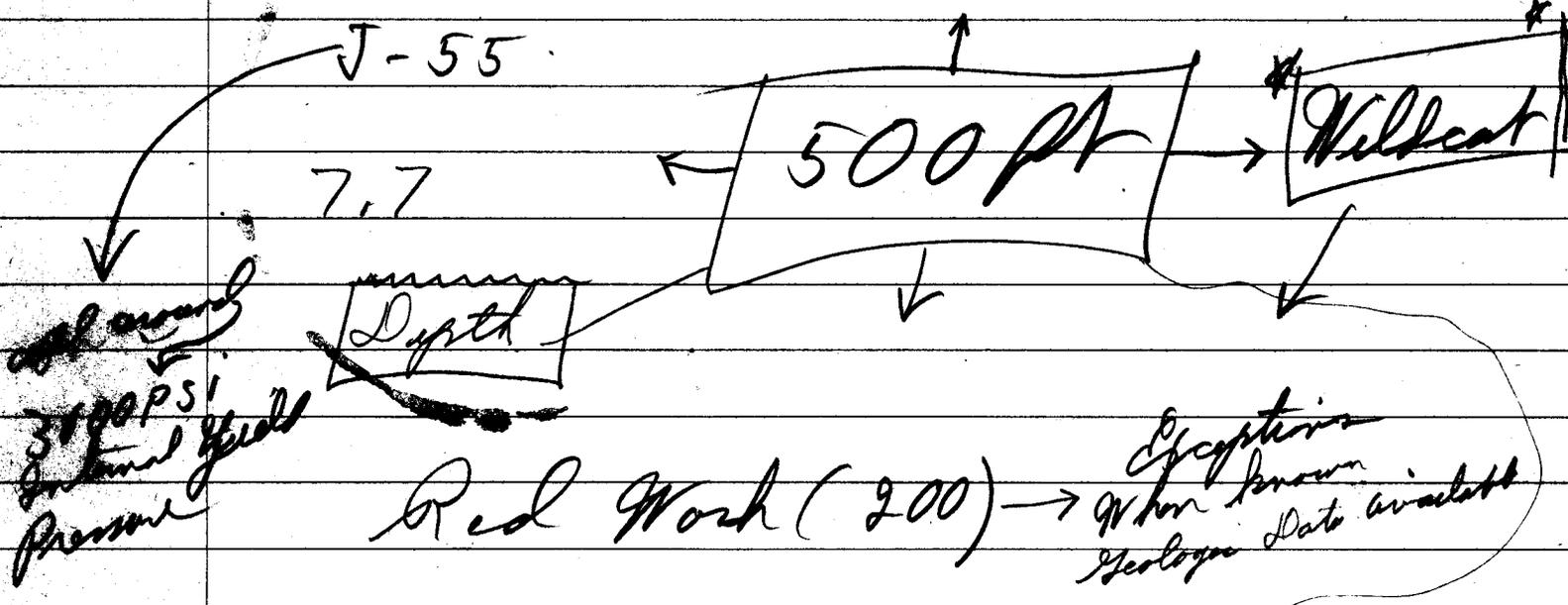
set only 142' of FF"

Pacific Natural washed
one & recovered same

J-55 → pressure up on little casing & blowout
for leaks & down cement
not → "92 Modulated" only temp of
Bond logs

Pat Patterson (3/11/65)

California Oil Co.



Red Work (200)

Seamless

Calculate Cement to surface
(1500 PSI)

mon. ↑
1200 PSI → "Clear Water Pressure"
for 15 min
"Oil Well Cement"

U.S. G.S. → New or New expanded
Rod Drift

Make sure Exceptions are in rule

Why J-55 → because H 40 called

Chuck Henderson → Use recommendation
only - sent me post
at in Rules & Reg.

April 7, 1965

MATTERS TO BE DISCUSSED

Date: Friday, April 16, 1965 Time: 9:00 A.M.

1. A date must be set for hearing an application by California Oil Company for an order to establish gas well spacing for certain lands in Uintah County, Utah. (Cause No. 112-1).
2. Governor Rampton has requested each department to determine what steps can be taken to reduce expenditures for the balance of the Fiscal Year. (See attachment D-1, Governor's Memo). Governor Rampton's Memorandum will be discussed in detail.
3. For the purpose of familiarizing yourselves with the employees and the work they are performing, Commissioner Croft has indicated that the Commission may decide to discuss with each employee, the various aspects of the actual job he or she is doing. (See attachment E-1, for job description and table of organization).
4. The Order in Cause No. 107-1 must be signed. This matter concerns the request by Sinclair Oil and Gas Company for 320-acre drilling and spacing units underlying certain lands in Grand County, Utah. (See attachment F-1). The minutes of the last meeting must also be approved and signed. (See attachment F-2).

5. A letter has finally been received from Shell Oil Company, concerning their desire to keep the Sunnyside "experimental pilot thermal project" confidential. (See attachment G-1).

MATTERS OF INTEREST

The respective legal rights of oil and gas lessees under the Mineral Leasing Act and tar sands lessees under Section 21 of the statute (30 U. S. C., Sec. 241) to oil produced from native asphalt, solid and semisolid bitumen, and bituminous rock (including oil-impregnated rock or sands from which oil is recoverable only by a special treatment after the deposit is mined or quarried) as well as oil shale, has been set forth in a U. S. Department of the Interior Memorandum, dated February 24, 1965.

The conclusion reached is that unless an oil and gas lessee is able to show that oil in one of the above mentioned substances occurs as a fluid in the ground, he cannot exploit it. It is subject to exploitation by the tar sands lessee only.

As you will recall, on December 17, 1964, Pacific Natural Gas Exploration Company's Horseshoe Bend State No. 13-2-1 Well, located in Section 2, Township 7 South, Range 21 East, SLBM, Uintah County, Utah, experienced a blowout from a Uinta gas sand at a depth of about 3600 feet. Prior to the blowout, the operator had completed pulling a tester from a depth of 6700 feet. During the lapse of time that the hole was allowed to remain standing, the 9.1 lb. mud they were using became saturated with gas, which percolated through the mud column. This lowered the density of the mud and caused the pressure of the gas zone to overcome the hydrostatic head in the hole. The well then unloaded and the resultant blowout occurred. Blowouts of the same nature have been experienced by almost every major company that has drilled in the area.

After the hole unloaded, the operator put the blowout under control by closing the blowout preventers. Shortly thereafter, the upper portion of the surface casing collapsed and split. The gas then escaped and at 1:30 A.M., December 18, 1964, it caught fire and subsequently destroyed the rig and associated equipment of the Willard Pease Drilling Company. The well burned until December 28, 1964, when it finally bridged over at a depth of about 400 feet. After a relief hole was completed, the operator re-entered the well on February 9, 1965, and washed over and recovered the old casing. New casing was set at 305 feet, and the well was drilled to a total depth of 7386 feet without further incident. At the present time, it is being completed as an oil producer from the Basal Green River Formation.

Investigation of the accident revealed the following pertinent facts:

1. Sand Oil Company used 152 feet of 8 5/8 inch, 28 lb. per foot, H-40 grade surface pipe, which was set at 142 feet. The internal yield pressure of the casing used was 2470 psi.

FACTS OF INTEREST (Continued)

2. Halliburton Cementing Company pumped 50 sacks of cement as a 1.18 cubic foot per sack slurry behind the previously mentioned pipe in a 10 inch hole. They stated on their ticket, that fair returns of cement were observed at the surface.
3. Sand Oil Company drilled the hole to 3396 feet and then plugged and abandoned the well on June 30, 1964.
4. Pacific Natural Gas Exploration Company re-entered the well on approximately December 6, 1964.
5. Prior to the blowout, Pacific Natural Gas advised Willard Pease Drilling Company ~~five~~ ³ different times, to plumb the derrick.

In reviewing the above data, it is surmised that the blowout occurred due to the fact that only a H-40 grade of surface casing was used and, by not leveling the rig, a crimp or fatigue was placed on said pipe.

It has been concluded that there were no provisions of the Oil and Gas Conservation Act violated. However, as a precautionary measure, it is recommended that the Commission's Rules and Regulations be revamped to include a specified minimum grade and length of surface pipe to be used in future drilling operations.

~~Executive Order 13211~~
Sand Oil Well

April 8, 1965

Jerry Lowan said 3 times with witnesses
also: He's convinced that the Kelley
was rubbing against pipe

He observed egg shape and wearing
of surface casing.

[Handwritten signature]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THIS APPLICATION*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-K1424.

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		5. LEASE DESIGNATION AND SERIAL NO. <p align="center">ML 1541</p>
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <p align="center">Not Applicable</p>
2. NAME OF OPERATOR <p align="center">Pacific Natural Gas Exploration Company</p>		7. UNIT AGREEMENT NAME <p align="center">None</p>
3. ADDRESS OF OPERATOR <p align="center">P. O. Box 2436, Salt Lake City, Utah 84110</p>		8. FARM OR LEASE NAME <p align="center">Horseshoe Bend</p>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <p align="center">552 FWL & 2158' FSL, Sec 2, T 7S, R 21E, SLB & M</p>		9. WELL NO. <p align="center">13-2-1</p>
14. PERMIT NO.		10. FIELD AND POOL, OR WILDCAT <p align="center">Wildcat</p>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <p align="center">5041.96' Ground</p>		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <p align="center">Sec 2, T 7S, R 21E</p>
12. COUNTY OR PARISH		13. STATE <p align="center">Uintah Utah</p>

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input checked="" type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input checked="" type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)*

5-8 - Spotted 400 gallons acid, 7-1/2% HCL. Perforated 2 holes/foot (35 gram jets) 6982'-6993'. Fraced with 625 barrels Ashley Valley crude, 50# Mark II adomite per each 1000 gallons, 13,875# 20-40 sand, 4,200# 8-12 glass beads, B.D. 4200, average pressure 4050#, ISIP 2900#, 2400# in 20 minutes. Average rate 24 barrels/minute.

5-9 - Set cast iron bridge plug at 6964'. Spotted 400 gallons 7-1/2% HCL. Perforated 4 holes/foot (25 gram jets) 6946'-6947', 6988'-6989', 6863'-6864', 6736'-6737', 6574'-6575'. Fraced with 605 barrels Ashley Valley crude, 50# Mark II adomite per each 1000 gallons. 14,000# 20-40 sand, 4200# 8-12 glass beads. Initial pressure 2000#, maximum 4100#, average 4000#, average injection rate 41 barrels/minute. ISIP 2000#, 5 minutes 1800#

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

SIGNED B. H. Means *B. H. Means* TITLE Completion Engineer DATE 6-3-65

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5.

Handwritten notes and signatures in the top left corner.

Interviews

Handwritten initials in the top right corner.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. TYPE OF WELL: OIL WELL [X] GAS WELL [] DRY [] Other []

1. TYPE OF COMPLETION: WORK OVER [X] DEEP-EN [] PLUG BACK [] DIFF. RESVR. [] Other []

2. NAME OF OPERATOR: Pacific Natural Gas Exploration Company

3. ADDRESS OF OPERATOR: P. O. Box 2436, Salt Lake City, Utah 84110

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements): At surface 552' FWL & 2158' FSL, Sec 2, T 7S, R 21E SLB & M

14. PERMIT NO. DATE ISSUED

5. LEASE DESIGNATION AND SERIAL NO. ML 1541
6. IF INDIAN, ALLOTTEE OR TRIBE NAME Not Applicable
7. UNIT AGREEMENT NAME None
8. FARM OR LEASE NAME Horseshoe Bend
9. WELL NO. 13-2-1
10. FIELD AND POOL, OR WILDCAT Wildcat
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 2, T 7S, R 21E
12. COUNTY OR PARISH Uintah
13. STATE Utah

15. DATE SPUNNER RE-ENTERED 11-8-64
16. DATE T.D. REACHED 3-5-65
17. DATE COMPL. (Ready to prod.)
18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 5041.96' Ground
19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 7386'
21. PLUG, BACK T.D., MD & TVD 7023'
22. IF MULTIPLE COMPL., HOW MANY*
23. INTERVALS DRILLED BY 0-7386'

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 3470' Top Green River
25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN Sonic-Gamma-Caliper, Acoustic Parameter, I. E. S.
27. WAS WELL CORED Yes

Table with 6 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Includes rows for 10-3/4" and 5-1/2" casing.

Table with 6 columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT*, SCREEN (MD), PACKER SET (MD). Includes LINER RECORD and TUBING RECORD.

Table with 2 columns: PERFORATION RECORD (Interval, size and number) and ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Includes data for 6982'-6993' and 6946'-75' intervals.

Table with 4 columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, PRODUCTION, WELL STATUS. Includes data for 6-10-65 and 6-11-65 production events.

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) Used on lease
TEST WITNESSED BY D. Jennings

35. LIST OF ATTACHMENTS
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.
SIGNED B. H. Means TITLE Completion Engineer DATE 7-2-65

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

PROVIDING INTERESTERS

H.

July 12, 1965

Pacific Natural Gas Exploration Company
P. O. Box 2436
Salt Lake City, Utah 84110

Attention: Mr. B. H. Means, Completion Engineer

Re: Well No. Horseshoe Bend #13-2-1
Sec. 2, T. 7 S., R. 21 E.,
Uintah County, Utah

Producing Intervals

Gentlemen:

We are in receipt of your "Well Completion or Recompletion Report and Log" for the above mentioned well. However, upon checking this information, we note that the above information was omitted from this report.

Please submit to this office said information as soon as possible.

Thank you.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER
RECORDS CLERK

kgw

9/28/65 - from Campbell
Called for plug log
program

10 ³/₄" @ 305' - 350' sb

5 ¹/₂" @ 7062 - 1st = 205' sb 2nd 80' sb

stop collar at 3515

Perfor @ 6982-93

Gravel @ 3470

6846-47

6888-89

6863-64

6736-37

~~6574-75~~

~~6574-6982~~

6574 - 6993

6574

7035

6574

461

~~6574-6575~~

① 6400-6600

② 10' sb at surface

5 ¹/₂" - 10 ³/₄"

③ Mud

Paul would you please
work out a plugging program
for the Pacific Natural gas well
that caught on fire and call
Graham Campbell. He may take
the well over and he wants to
know just what the commission
will require for plugging just in
case. - - - This information is
confidential

Jack

September 30, 1966

Mr. Graham S. Campbell
300 Empire Building
Salt Lake City, Utah

Re: Pacific Natural Gas Exploration Co.
Well No. Horseshoe Bend State #13-2-1
Sand Oil Company - State #1
Sec. 2, T. 7 S., R. 21 E.,
Uintah County, Utah

Dear Graham:

With respect to our conversation of 8-28-66 regarding the proposed plugging of the above named well, it will be necessary to conduct the following operations:

1. 500' plug should be set across the upper most perforated interval. It is recommended that the plug be set somewhere around 6400'-6600'.
2. 10 sacks at the surface with a regulation dry hole marker set in it.
3. Mud should be left in the hole between all plugs. If the mud column does not remain static, it will then be necessary to set a cast iron bridge plug.
4. The above location will have to be cleaned, leveled and restored to its original contour as nearly as possible.

It is hoped that the above information will be of some use to you and if there are any questions, please consult this office.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:cap

State of Utah Oil and Gas Commission
Salt Lake City, Utah

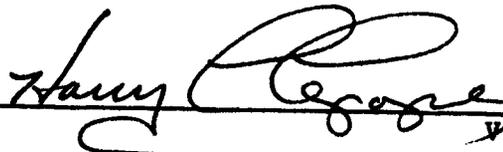
N O T I C E

Pursuant to the provisions of Rule C-1 of the Rules and Regulations of the State of Utah Oil and Gas Commission, Pacific Natural Gas Exploration Company hereby gives notice that it has transferred all of its interest in the Horseshoe Bend 13-2 well located in NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 2, Township 7 South, Range 21 East, S. L. M. to Armstrong-Manly.

The undersigned requests approval of this transfer by the Commission, thereby releasing Pacific Natural Gas Exploration Company from any further operational or plugging and abandonment responsibility pertaining to said well.

PACIFIC NATURAL GAS EXPLORATION COMPANY, TRANSFEROR

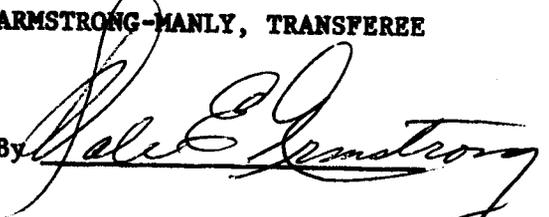
This 1st day of
December, 1965.

By  Vice President

The undersigned Transferee hereby accepts responsibility relative to subsequent operations to be conducted in connection with the above referred to well, including plugging and abandonment of same.

ARMSTRONG-MANLY, TRANSFEEEE

This 1st day of
December, 1965.

By 

The transfer herein is hereby approved and the Transferor released of any responsibility in connection with subsequent well operations of the well referred to above.

STATE OF UTAH OIL AND GAS COMMISSION

By _____

H. P. McLISH
PATTERSON BLDG.
DENVER 2, COLORADO

APR 11 1967

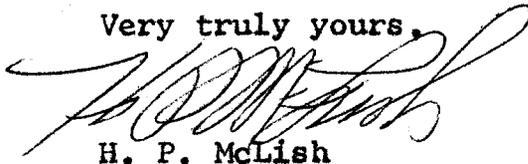
April 6, 1967

Oil & Gas Conservation Commission
348 East South Temple
Salt Lake City, Utah 84111

Gentlemen:

Enclosed are reports on the L. R. Miracle - H. P. McLish # 1-Armstrong-State recompletion in Section 2, Township 77 South, Range 21 East, Uintah County, Utah.

Very truly yours,



H. P. McLish

HPM/do

Enclosures

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

1a. TYPE OF WORK DRILL [] DEEPEN [] PLUG BACK [X]

b. TYPE OF WELL OIL WELL [] GAS WELL [X] OTHER [] SINGLE ZONE [] MULTIPLE ZONE []

2. NAME OF OPERATOR H. P. McLish & L. R. Miracle

3. ADDRESS OF OPERATOR 414 Patterson Building, Denver, Colo. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 2138' FSL, 552' FWL At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. line, if any) 552'

16. NO. OF ACRES IN LEASE 400+

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

20. ROTARY OR CABLE TOOLS

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5073' KB 5063' GR

22. APPROX. DATE WORK WILL START*

5. LEASE DESIGNATION AND SERIAL NO. 13-1541
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Armstrong-State
9. WELL NO. 1
10. FIELD AND POOL, OR WILDCAT Horseshoe Bend
11. SEC., T., S., M., OR BLK. AND SURVEY OR AREA Sec. 2-7S-21NE
12. COUNTY OR PARISH Uintah
13. STATE Utah

PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT PER FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Content: No more casing will be run.

Formerly Armstrong & Hafeman # 13-2-1 PCNGE
Formerly Pacific N.G.E. Co. # 13-2-1 Horseshoe Bend
No other Gas wells within one mile.
Pull tubing, rods & pump.

Perforate Uinta formation from: 3466-3470, 3446-3450, 3423-3425, 3375-3379
with 4 Super-dyna-jets per foot.

If gas productive, equip with Separator-Dehydrator.
Test and produce into Uinta Pipeline Co. line to determine
if commercially productive.

APPROVED BY UTAH OIL AND GAS CONSERVATION COMMISSION
DATE: 4-13-67 by Paul W. Bunch
CHIEF PETROLEUM ENGINEER

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED [Signature] TITLE Operator DATE April 6, '67
(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

STATE OF UTAH

SUBMIT IN DUPLICATE*

OIL & GAS CONSERVATION COMMISSION

(See other instructions on reverse side)

12

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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
H. P. McLish & L. R. Miracle

3. ADDRESS OF OPERATOR
414 Patterson Building, Denver, Colo.

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface **2158' FSL, 552' FWL**
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.
ML-1541

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Armstrong-State

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Horseshoe Bend

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 2-T7S-R21E

14. PERMIT NO. _____ DATE ISSUED _____

12. COUNTY OR PARISH
Uintah

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 _____

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 _____

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
3375' - 3470' Uinta

25. WAS DIRECTIONAL SURVEY MADE

26. TYPE ELECTRIC AND OTHER LOGS RUN
No new logs

27. WAS WELL CORED

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
5 1/2"	17 & 15 1/2#	7061'	7-7/8"	285 Sax ✓	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)
Mac-Jets 4/ft.

3375-79'
3423-25'
3446-50' 3466-70'

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION: **April 12, 1967** PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump): **Flowing** WELL STATUS (Producing or shut-in):

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
3/30/67	2 hrs.	1"			250	No	

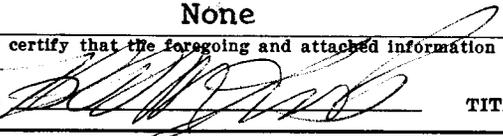
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)
--	1380#			3,200	None	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)
to be sold to Uinta Pipeline Co.

TEST WITNESSED BY
H.P. McLish

35. LIST OF ATTACHMENTS
None

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

SIGNED  TITLE **Operator** DATE **April 6, 1967**

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

DALE E. ARMSTRONG

Oil & Gas Properties

1605 WALKER BANK BLDG.
SALT LAKE CITY, UTAH 84111
OFFICE HOME
328-0306 328-4865

May 3, 1967

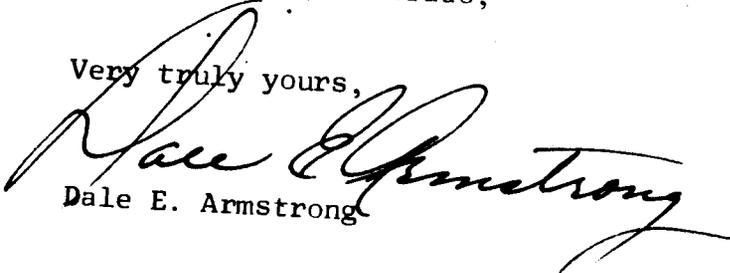
Mr. C. B. Feight
The State of Utah
Oil & Gas Conservation Commission
348 East South Temple
Suite 301
Salt Lake City, Utah 84111

Re: Horseshoe Bend 13-2-1
State of Utah Lease ML-1541
Uintah County, Utah

Dear Mr. Feight:

Please be advised that the above-captioned lease was sold to
Mr. H. P. McLish, 704 Patterson Building, Denver, Colorado,
March 7, 1967.

Very truly yours,


Dale E. Armstrong

DEA:slh

Member of American Association of Petroleum Landmen

Shaw

**THE STATE OF UTAH
STATE LAND BOARD**

SALT LAKE CITY, UTAH 84114

August 3, 1967

**H. P. McLish
414 Patterson Building
Denver, Colorado 80202**

Dear Sir:

On July 26, I made an inspection of the gas wells which you are operating in the Horse Shoe Bend Area in Uintah County, Utah. Operations are satisfactory at all locations except on the Armstrong-State #1 Well, Section 2, T. 7 S., R. 21 E., SIM., on Utah State Oil and Gas Lease ML 1541. At this location there is a considerable amount of oil-soaked lumber and weeds immediately north of the well. These constitute a very definite fire hazard, and you are requested to have these materials removed and either burned or buried as soon as possible.

We trust you will take care of this matter in the immediate future.

Very truly yours,

**DONALD G. PRINCE
ECONOMIC GEOGRAPHER**

DGP:ls

**CC: Oil & Gas Conservation Commission
348 East South Temple
Suite 301
Salt Lake City, Utah 84111**

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Handwritten initials

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

2. NAME OF OPERATOR
Kenneth D. Luff

3. ADDRESS OF OPERATOR
2180 Colorado State Bank Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
NW/4 SW/4

14. PERMIT NO. _____

15. ELEVATIONS (Show whether DF, RT, OR, etc.)
5073

5. LEASE DESIGNATION AND SERIAL NO.
M-1541

6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____

7. UNIT AGREEMENT NAME _____

8. FARM OR LEASE NAME
Armstrong-State

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Horseshoe Bend

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 2-T. 7N-R. 21E

12. COUNTY OR PARISH _____ 18. STATE _____

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(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.)*

Plug and abandon as follows: 5 1/2" casing at 7062 with 250 sacks.

1. Set 15 sack plug at 3350 to 3450 inside 5 1/2" casing.
2. Cut and pull free 5 1/2" casing.
3. Set 35 sack plug at top of 5 1/2" stub.
4. Set 35 sack plug 250' to 400'.
5. Set 10 sack with dry hele marker in top of surface pipe.

Fill pits, level location and reseed location.

APPROVAL CONDITIONAL UPON THE FOLLOWING:

- (1) Need mud between all plugs
- (2) Need a minimum of 20 sacks to cover all perforations from 3375' to 3470'
- (3) Require 75% of cement inside surface pipe and 25% below

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

DATE 11-26-73

BY C.D. Feight

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

SIGNED *Kenneth D. Luff* TITLE Operator DATE 11/15/73

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

THE STATE OF UTAH
DIVISION OF OIL AND GAS CONSERVATION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

AP

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

2. NAME OF OPERATOR
Kenneth D. Luff

3. ADDRESS OF OPERATOR
2180 Colorado State Bank Bldg., Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17, below.)
At surface
NW/4 SW/4

14. PERMIT NO. _____

15. ELEVATIONS (Show whether of, ft, or, etc.)
5073

5. LEASE DESIGNATION AND SERIAL NO.
M-1541

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Armstrong-State

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Horseshoe Bend

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 2-T. 7S-R. 21E

12. COUNTY OR PARISH _____

13. STATE _____

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SMOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(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.)

Plug and abandon as follows: 5 1/2" casing at 706' with 250 sacks.

1. Set 15 sack plug at 3350 to 3450 inside 5 1/2" casing.
2. Cut and pull free 5 1/2" casing.
3. Set 35 sack plug at top of 5 1/2" stub.
4. Set 37 sack plug 250' to 400'.
5. Set 10 sack with dry hole marker in top of surface pipe.

Fill pits, level location and reseed location.

- ① Seal around bitumen oil plug
- ② seal ^{annular} 20' ~~to~~ to cover all of pipe from 3375 to 3470
- ③ Want 75% of cement inside surface pipe and 25% below → Use on all approvals.

APPROVED BY DIVISION OF OIL & GAS CONSERVATION

DATE 11-26-73
BY C. D. [Signature]

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

SIGNED [Signature] TITLE Operator DATE 11/15/73

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

43-049-15029

4

PI JAV

December 26, 1973

MEMO FOR FILING

Re: Kenney D. Luff
Pacific Natural Gas -
Armstrong State #1
Sec. 2, T. 7 S, R. 21 E,
Duchesne County, Utah

The Division has approved the plugging and abandonment for eight of Mr. Luff's Uinta Formation shallow gas wells. It was thought that work would be commenced by this time. However, upon visiting this well and several others in the Horseshoe Bend Field, it could be observed that no work has started.

The above well was found in satisfactory condition, and producing an unknown quantity of gas with a flowing tubing pressure of 150 p.s.i.

PAUL W. BURCHELL
CHIEF PETROLEUM ENGINEER

PWB:lp

cc: U. S. Geological Survey
Utah State Land Board

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

PMB
07

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. M-1541
2. NAME OF OPERATOR Kenneth Luff, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 2180 Colo. State Bank Bldg., Denver, Colo. 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface NW/4 SW/4 <i>Mistake - Still Producing as of 7/10/74</i>		8. FARM OR LEASE NAME Armstrong-State
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5073	9. WELL NO. #1
		10. FIELD AND POOL, OR WILDCAT Horseshoe Bend
		11. SEC., T., R., M., OR BLK. AND SUBVY OR AREA Sec. 2-T7S-R21E
		12. COUNTY OR PARISH Uintah
		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 <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)*

Plug and abandon as follows: 5 1/2" casing at 7062 with 250 sacks.

1. Set 15 sack plug at 3350 to 3450 inside 5 1/2" casing.
2. Cut and pull free 5 1/2" casing.
3. Set 35 sack plug at top of 5 1/2" stub.
4. Set 35 sack plug 250' to 400'.
5. Set 10 sack with dry hole marker in top of surface pipe.

The pits have been backfilled, location cleaned up, dry hole marker erected, and the location is now ready for inspection.

Rescinded Via Telephone With Ken Luff on 7/12/74 - Mistake was made by ~~Secretary~~ Secretary - Mc Leis would not approve NE to PE! A.

See Memo Dated 7/10/74

PMB

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

SIGNER Kenneth Luff (son) TITLE Operator DATE 7/3/74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

OIL & GAS CONSERVATION COMMISSION

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. M-1541
2. NAME OF OPERATOR Kenneth Luff, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR 2180 Colo. State Bank Bldg., Denver, Colo. 80202		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Nw/4 SW/4		8. FARM OR LEASE NAME Armstrong-State
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 5073	9. WELL NO. #1
		10. FIELD AND POOL, OR WILDCAT Horseshoe Bend
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 2-T7S-R21E
		12. COUNTY OR PARISH Uintah
		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 <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input checked="" type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)*

Plug and abandon as follows: 5 1/2" casing at 7062 with 250 sacks.

1. Set 15 sack plug at 3350 to 3450 inside 5 1/2" casing.
2. Cut and pull free 5 1/2" casing.
3. Set 35 sack plug at top of 5 1/2" stub.
4. Set 35 sack plug 250' to 400'.
5. Set 10 sack with dry hole marker in top of surface pipe.

The pits have been backfilled, location cleaned up, dry hole marker erected, and the location is now ready for inspection.

August 8, 1974

Gentlemen:

We hereby notify you that we are rescinding this "Subsequent Report of Abandonment". We have decided to continue producing the well at this time.

Kenneth Luff (skb)
Kenneth Luff, Operator

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

SIGNED _____ TITLE **Operator** DATE **7/3/74**

(This space for Federal or State office use)

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



DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

1500 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
224 1771

State Lease No. PF
Federal Lease No. _____
Indian Lease No. _____
Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Uintah FIELD/LEASE Horseshoe Bend

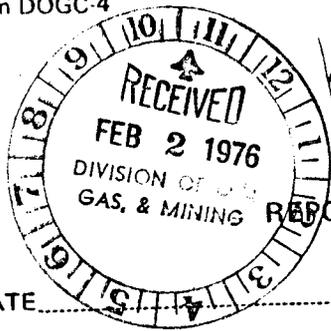
The following is a correct report of operations and production (including drilling and producing wells) for the month of:
November 19 75

Agent's Address: 1730 Colorado State Bank Bldg Company Kenneth Luff Inc.
Denver, Colorado 80202 Signed: Robert W Pitman (M)
Title: Agent

Phone No. 303 892-0588

Well Name	Section	Range	Township	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (in thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (If drilling, give date and result of test for content of gas)
State McLish #2 NW NW 36	6S	21E		ML-2534							ABANDONED
Bamberger 32	6S	22E		ML-1660							ABANDONED
Armstrong #1 NW SW 2	7S	21E		ML 1541				No Production			
State McLish #1 NW SE 36	6S	21E		ML 1542A				NO Production			

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SANTA FE, NEW MEXICO
TULSA, OKLAHOMA
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STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL & GAS CONSERVATION
 1588 WEST NORTH TEMPLE
 SALT LAKE CITY, UTAH 84116
 328-5771

State Lease No.
 Federal Lease No.
 Indian Lease No.
 Fee & Pat.

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE _____ COUNTY _____ FIELD/LEASE _____

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
 December, 1975

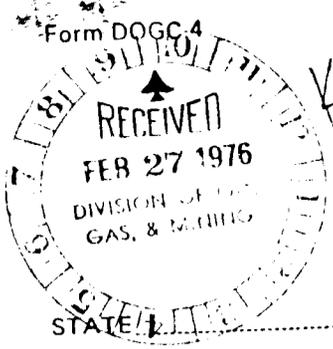
Agent's Address 1730 Colorado State Bank Bldg Company Kenneth Luff, Inc.
Denver, Colorado 80202 Signed Robert W. Anderson (2)
 Title Agent
 Phone No. 303-892-0588

Sec. and % of %	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (if drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
State McLish #2 NW NW 36	6S	21	E	ML-2534		Abandoned				
Bamberger 32	6S	22E		ML-1660		Abandoned				
Armstrong #1 NW SW 2	7S	21E		ML 1541		No Production				
State McLish #1 NW SE 36	6S	21E		ML 1542A		No Production				

Gas Sold.....
 Flared/Vented.....
 Used on/off Lease.....

NOTE: There were _____ runs or sales of oil; _____ M. cu. ft. of gas sold;
 _____ runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**



STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL & GAS CONSERVATION
 1518 WEST NORTH TEMPLE
 SALT LAKE CITY, UTAH 84116
 328 5771

State Lease No.
 Federal Lease No.
 Indian Lease No.
 Fee & Pat.

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE _____ COUNTY _____ FIELD/LEASE _____

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
 January _____, 1976.

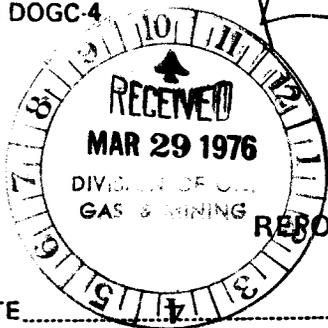
Agent's Address: 1730 Colorado State Bank Bldg Company: Kenneth Luff, Inc.
Denver, Colorado 80202 Signed: _____
 Title: Agent
 Phone No. 303-892-0588

Sec. and 1/4 of 4	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (if drilling, depth; if shut down, cause, date and result of test for gasoline content of gas)
State McLish #2 NW NW 36	6S	21	E ML-2534			Abandoned				
Bamberger 32	6S	22E	ML-1060			Abandoned				
Armstrong #1 NW SW 2	7S	21E	ML 1541			No Production				
State McLish #1 NW SE 36	6S	21E	ML 1542A			No Production				

Gas Sold.....
 Flared/Vented.....
 Used on/off Lease.....

NOTE: There were _____ runs or sales of oil; _____ M. cu. ft. of gas sold;
 _____ runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

State Lease No. _____
Federal Lease No. _____
Indian Lease No. _____
Fee & Pat. _____

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE _____ COUNTY _____ FIELD/LEASE _____

The following is a correct report of operations and production (including drilling and producing wells) for the month of:
February, 1976.

Agent's Address 1730 Colorado State Bank Bldg Company, Denver, Colorado 80202 Company Kenneth Luff, Inc.
Signed Robert W. Peterson (RP) Title Agent
Phone No. 303-892-0588

Sec. and % of %	Twp.	Range	Well No.	Days Produced	Barrels of Oil	Gravity	Cu. Ft. of Gas (In thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (if drilling, depth; if shut down, cause date and result of test for gasoline content of gas)
State McLish #2 NW NW 36	6S	21	E	ML-2534		Abandoned				9
Bamberger 32	6S	22E		ML-1660		Abandoned				
Armstrong #1 NW SW 2	7S	21E		ML 1541		No Production				
State McLish #1 NW SE 36	6S	21E		ML 1542A		No Production				

Gas Sold _____
Flared/Vented _____
Used on/off Lease _____

NOTE: There were _____ runs or sales of oil; _____ M. cu. ft. of gas sold;
_____ runs or sales of gasoline during the month.

DRILLING/PRODUCING WELLS: This report must be filed on or before the sixteenth day of the succeeding month following production for each well. Where a well is temporarily shut-in, a negative report must be filed. **THIS REPORT MUST BE FILED IN DUPLICATE.**

Form No. 7

DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL & GAS CONSERVATION

State Lease No. _____
Federal Lease No. _____
Indian Lease No. _____
Fee & Pat. _____



1500 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
234-1771

REPORT OF OPERATIONS AND WELL STATUS REPORT

STATE Utah COUNTY Uintah FIELD/LEASE Horseshoe Bend

The following is a correct report of operations and production (including drilling and producing wells) for the month of June 1976

Agent's Address 1730 Colorado State Bank Bldg Company Kenneth Luff Inc
Denver, Colorado 80202 Signed Robert W. Peterson (RJ)
Phone 303 892-0588 Title Agent

Section	Tract	Well No.	Days Produced	Barrels of Oil	Gravity	Quantity of Gas (in thousands)	Gallons of Gasoline Recovered	Barrels of Water (if none, so state)	REMARKS (if drilling, depth; if shut down, date and result of test for content of gas)
State McLish #2	NW NW 36 6S 21 E	ML-2534							ABANDONED
Bamberger	32 6S 22E	ML-1660							ABANDONED
Armstrong #1	NW SW 2 7S 21E	ML 1541							No Production
State McLish #1	NW SE 36 6S 21E	ML 1542A							NO Production

GRAND TOTAL: _____
Produced _____
Produced _____
Produced _____

KENNETH LUFF, INC.

COLORADO STATE BANK BUILDING
SUITE 1720

*S. S. Luff
K. Luff W*

1600 BROADWAY
DENVER, COLORADO 80202

PHONE 892-0586
AREA CODE 303

September 21, 1977

*Change in:
1) Cardley
2) Well file & etc
Move file on
PROPER sequence*

Utah Oil & Gas Conservation Commission
1588 West North Temple
Salt Lake City, Utah 84116

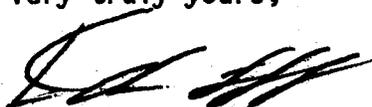
Re: #1 Armstrong-State
NW SW Section 2, T7S, R21E
Uintah County, Utah
HORSESHOE BEND AREA

Gentlemen:

This is to notify you that effective October 1, 1977, we are relinquishing operations of the above captioned well and they will be taken over by Flying Diamond Corporation, Suite 900, 1700 Broadway, Denver, Colorado 80202, phone number (303) 573-6624.

If you need any additional information regarding this change of operator, please do not hesitate to request such.

Very truly yours,


Kenneth D. Luff

KDL:skb

cc: Mr. H. P. McLish, President
Flying Diamond Corporation

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

SUBMIT IN TRIPPLICATE*
(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.)

<p>1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR <u>Flying Diamond Oil Corporation</u></p> <p>3. ADDRESS OF OPERATOR <u>1600 Broadway, Suite 900, Denver, Colorado 80290</u></p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>2138' FSL, 552' FWL, NW/4 SW/4</u></p>		<p>5. LEASE DESIGNATION AND SERIAL NO. <u>M-1541</u></p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME <u>Armstrong-State</u></p> <p>9. WELL NO. <u>1</u></p> <p>10. FIELD AND POOL, OR WILDCAT <u>Horseshoe Bend</u></p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <u>Sec. 2-T7S-R21E</u></p> <p>12. COUNTY OR PARISH 13. STATE <u>Uintah Utah</u></p>
<p>14. PERMIT NO.</p>	<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>5073' KB</u></p>	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(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.)*

1. MIRUSU & install BOP.
2. Spot 250' cmt. plug centered over perfs 3375-3470'.
3. Fill hole w/ 8.7# + mud.
4. Perf 5½" csg. @ 350'.
5. Circ. cmt inside & outside 5½" csg. to surface.
6. Place Dry Hole Marker.
7. Clean, Level, & Reseed location.



Cumulative Production is:

3521 BO, 386,910 MCFG, 348,605 BW

There are no recompletion possibilities.

No additional surface disturbance is required.

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING

DATE: Feb. 14, 1978

BY: P. K. Ansell

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

SIGNED E. B. Whicker TITLE Roosevelt Dist. Supt. DATE March 10, 1978
E. B. Whicker

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

To BE FILED

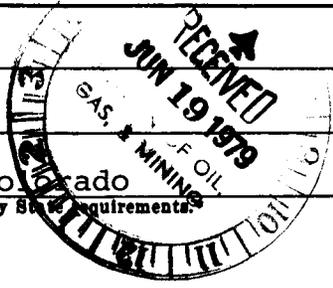
STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

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.)

<p>1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR Bow Valley Petroleum, Inc.</p> <p>3. ADDRESS OF OPERATOR 1700 Broadway, Suite 900 Denver, Colorado</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface</p> <p>2138' FSL, 552' FWL, NW/4 SW/4</p> <p>14. PERMIT NO.</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. M-1541</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Armstrong-State</p> <p>9. WELL NO. 1</p> <p>10. FIELD AND POOL, OR WILDCAT Horseshoe Bend</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 2-T7S-R21E</p> <p>12. COUNTY OR PARISH Uintah</p> <p>13. STATE Utah</p>
<p>15. ELEVATIONS (Show whether DF, RT, OR, etc.) 5073' KB</p>		



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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(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.) *

On June 1, 1979 Bow Valley Petroleum, Inc. permanently abandoned the subject well as follows:

1. Nipple up BOP.
2. Broke Safety Joint in Baker Model AD pkr. & POOH w/ 109 jts., 2 3/8' tbg. (Left Baker Model AD pkr. at 3,380' less top sub.)
3. Run tbg. back in hole and circulate hole w/ 150 bbls. of 9.0# mud.
4. Mix & spot 100 sacks Class H Cement at 3,300' & displace into perforations (3,375-3,470). Left 9 bbls. in csg. w/ cement top at 3,085'
5. POOH & lay down 105 jts.
6. Fill hole with 9# mud.
7. Test csg. to 2,500 PSI, held OK.
8. Rig up perforators & perforate 2 holes at 352'. Circulate down csg. & up surface pipe, w/ 75 bbls. water.
9. Mix & pump 200 sacks Class H Cement & circulate around w/ returns to surface.
10. Cut off well head, install regulation dry hole marker. over

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

SIGNED E. B. Whicker TITLE Roosevelt Dist. Supt. DATE June 18, 1979
E. B. Whicker

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

11. Bury pit & re-contour location.

The subject well may be inspected at your leisure.