

FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

IWR for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

COMPLETION DATA:

Date: Work Completed 7-10-57

OW _____ NW _____ TA _____

GW _____ CS _____ PA

Location Inspected

Bound returned

State of Fee Land

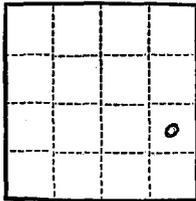
LOGS FILED

Diller's Log 12-16-57

Electric Logs (No. 2)

E 1-E E-I _____ GR _____ GR-N Micro _____

Lat _____ Mi-L _____ Sonic _____ Others _____



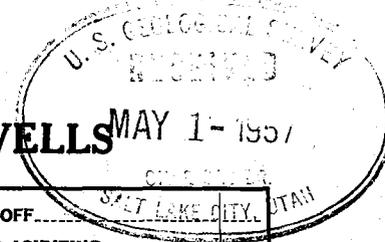
(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office _____

Lease No. **SL-071010 C**

Unit _____



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

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

April 29, 19 57

Well No. **1 Federal** is located **1820** ft. from **S** line and **300** ft. from **E** line of sec. _____

SE/4 **15** **406** **232** _____
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)

_____ **San Juan** **Utah** _____
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4921** ft. **Gr.**

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 proposed work)

Objective Horizons: **Paradox, expected at about 5600'.**
 Surface string: **8 5/8", 24#, J-55 at about 1200'.** *Circulate cement to surface.*
 Oil string: **3 1/2", 15.5#, J-55 at RTD (Est. 6000').**
 Mud program: **Wt. 9.5, Visc. 40, Filt. 10 (Begin at 3500').**
 Cementing intervals: **0' to 1200', Est. 5000' to 6000'.**
 Casing program: **Anticipate approx. 150' beginning at about 5600'.**

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

Company **The El Dorado Refining Co.**

Address **1026 Central Building**
Wichita, Kansas

By *Max S. Houston*
Max S. Houston

Title **Exploration Manager**

COMPANY El Dorado Refining Company

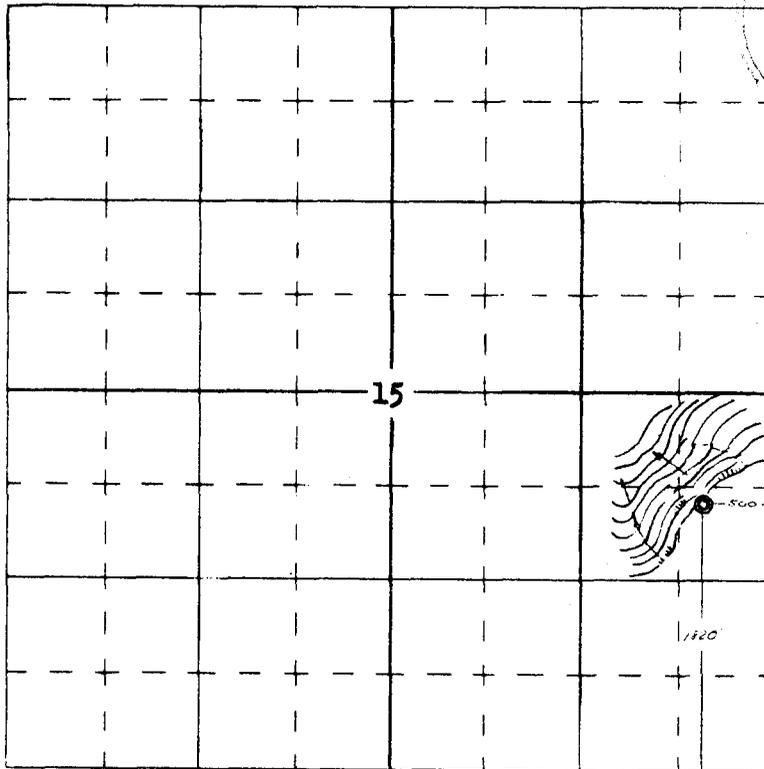
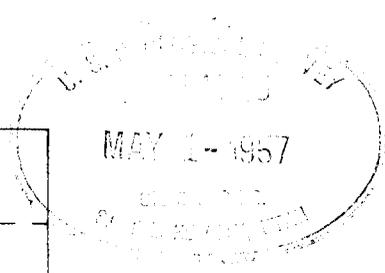
Well Name & No. _____ Lease No. _____

Location 1820' from the South line and 500' from the East line.

Being in NE¹SE¹

Sec. 15, T 40^SN., R 23^EW., S.L.M., San Juan County, Utah.

Ground Elevation 4921



Scale -- 4 inches equals 1 mile

Surveyed April 25, 1957

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.

Ernest V. Echohawk

Ernest V. Echohawk
Registered Land Surveyor
N. M. Reg. #1545
**Practicing in Utah under Laws
regulating Professional Engrs.
and Land Surveyors, Utah Code 1953,
Title 58-10-16**

Seal:



May 22, 1957

El Dorado Refining Company
1020 Central Building
Wichita 2, Kansas

Gentlemen:

It has come to the attention of this office that you intend drilling Well No. 1 Federal, in Section 15, Township 40 South, Range 23 East, SLEW, San Juan County, Utah.

Under the General Rules and Regulations adopted by the Utah Oil & Gas Conservation Commission, any individual or corporation intending to drill for oil and/or gas in the State of Utah must file a notice of intention to drill with this office and have said notice approved by the Commission before spudding in except for those cases which fall under Rule A-3 of these rules and regulations.

It would appear that this well does not fall within the exception provided for under Rule A-3.

Therefore, prior to commencement of drilling operations on this well, you are requested to file a notice of intention to drill with this office and have the same approved.

There is enclosed herewith a copy of our rules and regulations and some of our Form OGCC-1, Notice of Intention to Drill, for your information and use.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
SECRETARY

CBF:en

cc: Phil McGrath/ Jerry Long
U.S.G.S. Farmington,
New Mexico



The **ELDORADO REFINING Co.**

ESTABLISHED 1916

ELDORADO, KANSAS

May 23, 1957

MAX S. HOUSTON MANAGER
LAND, GEOLOGICAL & EXPLORATION

ADDRESS REPLY TO
1020 CENTRAL BUILDING
WICHITA 2, KANSAS

Mr. Cleon B. Feight
Secretary
Oil & Gas Conservation Commission
State Capitol Building
Salt Lake City, Utah

Re: El Dorado Refining Company
#1 Federal, Sec. 15-40S-23E,
San Juan County, Utah

Dear Mr. Feight:

Enclosed is one copy of a Notice of Intent to Drill which has been filed and approved by the United States Geological Survey.

On all future filings and Intents to Drill, we will send duplicate copies to your office for your approval also.

Yours very truly,

Max S. Houston
Exploration Manager

MSH:ml1
enc.

May 27, 1957

The El Dorado Refining Company
1020 Central Building
Wichita 2, Kansas

Attention: Max S. Houston, Exploration Manager

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Federal 1, which is to be located 1820 feet from the south line and 500 feet from the east line of Section 15, Township 40 South, Range 23 East, S1E1M, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT
SECRETARY

CBF:en

cc: Phil McGrath/ Jerry Long
U.S.G.S. Farmington,
New Mexico

THE EL DORADO REFINING COMPANY
EL DORADO, KANSAS

May 27, 1957

*Noted
COK
6/5/57*

U. S. Geological Survey
457 Federal Building
Salt Lake City, Utah

RE: #1 Federal
NE/4 SE/4 15-40S-23E
San Juan County, Utah

Gentlemen:

Enclosed are five copies of your form 9-331a
giving the supplemental well history on the captioned
well.

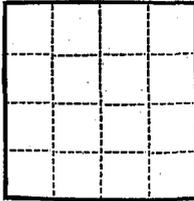
Very truly yours,

Max S. Houston
Max S. Houston

mll
encs.5

cc - Mr. Clem B. Feight
Oil & Gas Conservation Commission
State Capitol Building
Salt Lake City, Utah - w/1 copy Form 9-331a.

WAS 11/28/57



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office _____
Lease No. **SL-071010 C**
Unit _____

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF RE-DRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	X
NOTICE OF INTENTION TO ABANDON WELL			

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

May 27

1957

Well No. **1 Federal** is located **1820** ft. from **[S]** line and **500** ft. from **[E]** line of sec. **15**
SE/4 Section 15 **40S** **23E**
(¼ Sec. and Sec. No.) (Twp.) (Range) (Meridian)
San Juan **Utah**
(Field) (County or Subdivision) (State or Territory)

*Noted
COK
6/5/57*

The elevation of the derrick floor above sea level is **4921** ft. **Gr.**

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 proposed work)

Spudded May 20, 1957.
Cemented 8-5/8" surface casing at 1317' with 720 sacks cement.
Drilling ahead at 1992'.

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

Company **The El Dorado Refining Company**
 Address **1020 Central Building**
Wichita, Kansas
 By **Max S. Houston**
 Title **Manager of Exploration**

December 6, 1957

El Dorado Refining Company
1020 Central Building
Wichita, Kansas

Notes
1-7-58
H

Re: Well No. Federal 1,
Sec. 15, T. 40 S, R. 23 E,
SEBM, San Juan County, Utah

Gentlemen:

This letter is to advise you that the well log for the above mentioned well has not as yet been filed with this office as required by our rules and regulations.

Please complete the enclosed Forms OGC-3, Log of Oil or Gas Well, in duplicate, and forward them to this office as soon as possible.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

GLENN B. FRIGHT
SECRETARY

GBF:en

*Jack says
this is dry hole.*



THE EL DORADO REFINING COMPANY

████████████████████
2000 National Bank of Tulsa Building
Tulsa 5, Oklahoma

December 11, 1957

The State of Utah
Oil & Gas Conservation Commission
Salt Lake City 14, Utah

Attention: Mr. Cleon B. Feight,
Secretary

Re: EL DORADO REFINING COMPANY
FEDERAL NO. 1 WELL
Sec. 15-40S-23E
San Juan County, Utah

Gentlemen:

Pursuant to your request of December 6, 1957, enclosed here-
with are duplicate copies of Form OGCC-3, Log of Oil or Gas
Well.

Very truly yours,

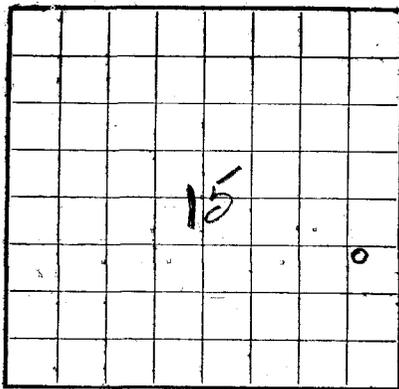
R. B. WILKINS

RBW:jp
encls.
cc: Mr. W. V. Knight
cc: L. H. Kramer

21

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION

State Capitol Building
Salt Lake City 14, Utah



LOCATE WELL CORRECTLY

To be kept Confidential until _____
(Not to exceed 4 months after filing date)

LOG OF OIL OR GAS WELL

Operating Company The El Dorado Refining Co. Address 2000 National Bank of Tulsa Bldg. Tulsa 3, Oklahoma
Lease or Tract: Federal Field Aneth State Utah
Well No. 1 Sec. 15 T. 40S R. 23E Meridian SLM County San Juan
Location 1820 ft. $\left\{ \begin{matrix} N. \\ S. \end{matrix} \right\}$ of S Line and 500 ft. $\left\{ \begin{matrix} E. \\ W. \end{matrix} \right\}$ of E Line of SE/4 Elevation 4934'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed R. B. Williams
Date December 11, 1957 Title Mgr. of Prod.

The summary on this page is for the condition of the well at above date.

Commenced drilling May 20, 1957 Finished drilling July 10, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from _____ to _____ No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
8 5/8	22#	8	Spiral Weld	1317'	(Baker)				Surface Production
5 1/2	15.5#	8	J-55	5990'	(Flex-Flo)		(5914 5924')	(5932 5944')	

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	1317'	720	(Pumped &)		
5 1/2	5990'	200	(Circulated)		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

DEC 16 1957

FOLD MARK

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	22#	8	Weld (Baker)	1317'	
5 1/2	15.5#	8	J-55 (Flex-Flo)	5990'	(5914 5924') (5932 5944')
					Surface Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	1317'	720	(Pumped &)		
5 1/2	5990'	200	(Circulated)		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 - feet to 5990' ^{6072 TD} feet, and from _____ feet to _____ feet
 Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
 The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
 If gas well, cu. ft. per 24 hours _____ Gallons gasoline per 1,000 cu. ft. of gas _____
 Rock pressure, lbs. per sq. in. _____

EMPLOYEES

George Noland Drlg. Co., Inc. _____, Driller
 _____, Contractor
 _____, Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
			<u>FORMATION TOPS</u>
			Jurassic Surface
			Triassic
			Chinle 1842' (+3092')
			Shinarump 2623' (+2311')
			Moenkopi 2703' (+2231')
			Permian
			Cutler 2810' (+2124')
			DeChelly 2936' (+1998')
			Pennsylvanian
			Hermosa 4868' (+ 66')
			Upper Paradox 5723' (- 789')
			Middle Paradox 6057' (-1123')

[OVER]

DEC 16 1957

DEC 1

W /

()

HISTORY OF OIL OR GAS WELL

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or hauling.

Spudded @ 3 PM, 5/19/57.

Drilled 11" hole to 1320'. Ratholed w/7-7/8" to 1496'. Set 8-5/8" 22# Amoco Spiral Weld csg. @ 1317' w/720 sxs cement which was circulated. Plug down @ 11:30 AM 5/24/57.

Core #1 5898-47'; rec. 47.7'. 1' black carbonaceous shale. 7' drk. gray to black dense dol. tite lim n.s. 4' Anhydrite. 9' tan to gray xln. dol. ls. tight w/good stain & odor. 10' dark gray dolo tight n.s. 1' tan ln. ls. w/good stain & odor. 2' dark gray dense tight dol. ls. n.s. 2' tan xln. ls. tight w/good stain & odor. 3' dark gray dense tight dol. ls. n.s. 1' dark gray dense dol. ls. w/faint odor. 1' dark gray dense shaly ls. n.s. 1' dark gray dense ls. w/good stn. & odor. 2.7' dark gray dense hard tight dol. ls. ns.

DST #1 5900-5946 (corrected) open 1 1/4 hrs; rec. 90' mud & 180' very sl. OCM, Int. SIP 420#, IFP 145#, FFP 175#, 30 min. SIP 225#. Fair to weak blow immediately which decreased to no blow in 1 1/4 hours.

Core #2 5946-5993 (corrected) 3'4" dol. calceneous lgt. gray very hard n.s. 6'2" dol. tan xln. soft w/some intergranular porosity & good oil st & odor. 2' lgt. gray ls. xln hard dense n.s. 4'10" dol. ls. (?) tan Xln. w/pp porosity & carb. sh. partings w/good stain & odor. 16'8" ls. dark gray to lgt gray w/spotted stain xln dense hard tight 5' ls. dol. tan xln. pp porosity w/good stain & odor; spotty bleeding and some vuggy porosity. 9' ls. dol. lgt gray w/spotty stain dense tight w/some very small unconnected vugs. 3' ls. gray xln dense hard n.s.

DST #2 5946-93 rec. 460' sl. OCM. 390' wtr & sl. OCM. 120' heavy emulsion containing very little oil. 430' heavily water & sl. OCM. Weak blow continued throughout test. Init. SIP 2290#. IFP 270#. FFP 540#. 20 min. SIP 1580#.

Ran ES & Induction logs. Drillers TD 6072 & Schl. TD 6034'.

DST #3 6005-40 (corrected) Open 1 hr. IFPO, FFP 200#, 30 min SIP 220#. Rec. 30' very sl. OCM 30' heavy emulsion very sl OC & 60' mud cut SW.

Core #4 6040-6074 rec. 34'. 17' bl. sh. 3' sl. dense avg. ls. 3' gray xln ls. n.s. 1' bl. sh. 4 1/2' bl. avg ls. 1/2' bl. carb. sh. 2' anhydrite 3' dol. black dense hard avg. w/sh lam. calcite filled fractures. bleeding oil in streaks very tight bled for 3 hours.

Ran Schlumberger G.R.N. Survey. Cemented 185 jts. 5 1/2" J-55 SS casing @ 5990' w/200 sxs cmt. Bumped plug (1700#) @ 3:45 PSM.

Drilled out cement to top of plug @ 5947'.

Ran GR and collar locator survey. Perf. by Schlumberger 5914-24 w/4 jets/ft. Ran tbg w/RTTS tool @ 5895'. Displaced 500 gal mud acid to bottom. Max pumping press. 4600#; avg. press. 4400#; avg. rate after breakdown; 1/2 BPM. Swabbed back displacing wtr & some acid wtr w/no show of O, G or W. Reacidized w/1500 gal. XFW. Max. Press 3600#, Inj. rate 0.7 BPM @ 3500#. Displaced @ 2.5 BPM. Started swabbing back.

Lost swab & approx. 3000' of line in hole while swabbing. Pulled tbg. and fished line and swab. Re-ran tbg. and pkr. and set pkr. @ 3865'. Lost swab on first pull. Swabbed with swabbing unit. Recovered 27.92 bbls. in 4 1/2 hrs. (approx. 20 bbls. originally in annulus).

Perf. 5932-44 w/60 jet shots per foot with Schlumberger tubing gun. Acidized w/3000 gal XFW acid. Treatment consisted of 1000 gal XFW staged w/50 rubber balls, and followed by 2000 gal XFW. Max. Pr. 4700#, min. Press. 4200#. Displaced w/23 bbls. wtr. Press dropped to 2900# in 30 min. Flowed back 4.72 bbls. in 1 1/2 hrs. Swabbed & flowed 88.04 bbls. of fluid from 4:30 PM, 7-9-57 to 9:45 AM 7-10-57. During last 5 hrs. made 7.88 bbls. fluid of which approx. 2% was oil, remainder salt wtr & some spent acid wtr. Pulled tbg. and pkr. Ran Dia-Log Free Point on csg. Cut off csg. @ 1346' and pulled.

Cemented as follows:

20 sacks opposite perforations 5914-24' & 5932'-44'
15 sacks opposite Hermosa topped at 4866'
15 sacks opposite interval topped at 3900'
15 sacks opposite De Chelly topped at 2935'
15 sacks opposite Chinle topped at 1840'
20 sacks to plug surface casing bottommed at 1320'
15 sacks to plug top of surface casing.

Erected a monument consisting of a 4" pipe 10' long. 4' extends above ground level, 6' buried in the cement surface plug. Sign erected showing the company and well name, lease number and the lease description.

Petro-Atlas, Inc.

A SUBSIDIARY OF ATLAS CORPORATION

2000 NATIONAL BANK OF TULSA BUILDING

TULSA 3, OKLAHOMA

July 10, 1961

The State of Utah
Oil & Gas Conservation Commission
310 Newhouse Building
10 Exchange Place
Salt Lake City 11, Utah

Gentlemen:

In accordance with your letter of June 22, 1961, enclosed herewith are copies of the Induction-Electrical Log and Gamma-ray Neutron Survey for the El Dorado Refining Company Federal #1, located in the NE SE Section 15-40S-23E, San Juan County, Utah. This well was drilled by a former associated company and plugged and abandoned in 1957. A well summary was filed, but through an oversight copies of the electrical surveys were not. It is hoped that this has not inconvenienced you too much.

In the event that additional information is required on the subject well, or if additional copies of the logs are needed, please do not hesitate to contact us.

Very truly yours,

N. B. Gove

N. B. GOVE

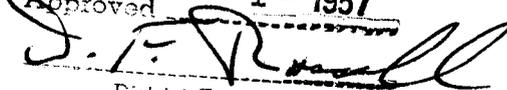
NBG:jp
encls.

FEDERAL LAND

CONDITIONS OF APPROVAL

1. The lessee or operator shall mark the derrick or well in a conspicuous place with the name of the operator, well number, the land office and serial number of the lease, and location of the well and shall take all necessary precautions to preserve these markings.
2. A conductor or surface string of casing shall be run and cemented from bottom to surface unless other procedure is expressly authorized by this approval. The conductor or surface string shall be of sufficient weight and length and have installed thereon the proper and necessary high pressure fittings and equipment to keep the well under control in case an unexpected flow of gas, oil or water is encountered.
3. All showings of oil or gas are to be adequately tested for their commercial possibilities. All showings shall be properly protected by mud, cement, or casing so that each showing will be confined to its original stratum. Necessary precautions shall be taken to prevent waste or damage to other minerals drilled through and the U. S. Geological Survey, upon request, shall be furnished with carefully taken samples of such minerals as coal, potash, and salt.
4. Lessee's Monthly Report of Operations (Form 9-329) shall be filed in duplicate with the office of U. S. Geological Survey, P. O. Box 400, Casper, Wyoming, not later than the sixth of the succeeding month. The report should show for this well any change of status occurring within the particular month such as date drilling commenced, suspended, resumed or completed, total depth as of the end of the month, and if shut down the reason therefor.
5. Two copies of the log of this well on Form 9-330, or other acceptable form and when available two copies of all electrical logs, directional, diameter and temperature surveys of the hole shall be filed with the district engineer within 15 days after such information is received by operator on completion of the well whichever is earlier.
6. The District Engineer, D. F. Russell, 457 Federal Bld'g., Salt Lake City 1, Utah Ph. EM 4-2552, shall be notified on Form 9-331a in triplicate giving thereon all necessary details of the proposed operation or test for proper consideration and action sufficiently in advance of making casing or formation tests, shooting or acidizing, running or cementing casing, other than the surface or conductor string, to permit approval of the notice prior to date of proposed work.

SLC-071010-C

Approved MAY 1 - 1957

District Engineer