

Notes of Intentions to Plug Back

NOTATIONS

Entered in NID File	<input checked="" type="checkbox"/>	Checked by Chief	<input checked="" type="checkbox"/> <i>PHD</i>
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 3-9-65 Location Inspected _____
Shut IN WW _____ TA _____ Bond released _____
GW _____ OS _____ PA _____ State of Fee Land _____

LOGS FILED

Driller's Log 5-54-65
Electric Logs (No.) 12 ^②
E _____ I _____ E-I GR GR-N _____ Micro 5 ⁽⁴⁾
Lat _____ Mi-L _____ Sonic YES Others Cement Bond Log

CHD
04-17-92

Review, as recommended

7 blocks by [unclear] [unclear]

NOTATIONS			
Entered in NID File	<input checked="" type="checkbox"/>	Checked by Chief	<input checked="" type="checkbox"/>
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	5-9-65	Location Inspected	<input type="checkbox"/>
Shut In <input checked="" type="checkbox"/> WW <input type="checkbox"/> TA <input type="checkbox"/>		Bond released	<input type="checkbox"/>
GW <input type="checkbox"/> OS <input type="checkbox"/> PA <input type="checkbox"/>		State of Fee Land	<input type="checkbox"/>
LOGS FILED			
Driller's Log	5-34-65		
Electric Logs (No.)	1-12		
E <input type="checkbox"/> I <input type="checkbox"/> E-I <input checked="" type="checkbox"/> GR <input checked="" type="checkbox"/> GR-N <input type="checkbox"/> Micro <input checked="" type="checkbox"/>			
Lat <input type="checkbox"/> Mi-L <input type="checkbox"/> Sonic <input checked="" type="checkbox"/> Others <input checked="" type="checkbox"/>			

CHD
0417-92

4029' FROM WELL IN SEC. 27

about 4200 ft
from Vinta gas
Well - #3 PWB

Copy H/C

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

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
California Oil Company, Western Division

3. ADDRESS OF OPERATOR
P. O. Box 455, Vernal, Utah

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
653' FWL, 665' FWL, Sec. 35, T6S, R21E, S14M
 At proposed prod. zone
Lower Green River

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
15 miles SE of Vernal by road

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)
80 acre

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GL 4821' KB 4334'

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/4"	13-3/8"	54-1/2#	+ 350	To surface
12-1/4"	8-5/8"	32#	+3700	Sufficient to cover Uinta sand gas & water flows.
7-7/8"	5-1/2"	15-1/2# & 17#	TD	Sufficient to cover all producing zones & significant water sands.

It is proposed to drill a test well to be completed in the Lower Green River Formation.

Standard Caloil BOP's for this area will be employed; these consist of a double gate hydraulic BOP and a hydril BOP with a remote control closing unit.

"Tight Hole" Hold Confidential. ✓

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. W. PATTERSON** *R.W. Patterson* TITLE **Superintendent of Operations** DATE **12-16-64**

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:
UEGS, SLC-3; O&GCC, SLC-2; File-1

*See Instructions On Reverse Side

5. LEASE DESIGNATION AND SERIAL NO.
U-08872

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Horseshoe Bend Area

9. WELL NO.
Federal #4 (11-35)

10. FIELD AND POOL, OR WILDCAT
Horseshoe Bend

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

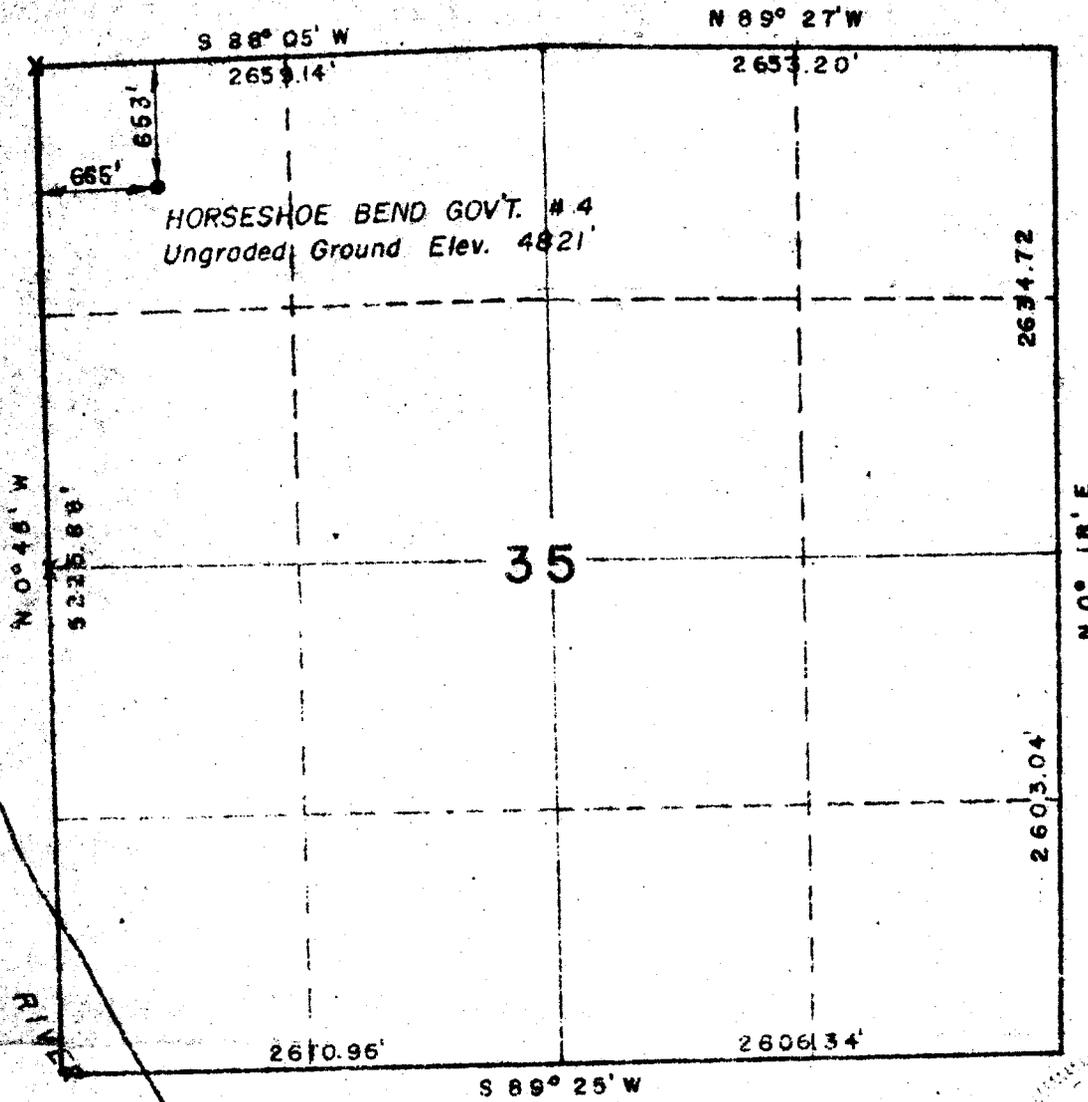
12. COUNTY OR PARISH **Uintah** 18. STATE **Utah**

17. NO. OF ACRES ASSIGNED TO THIS WELL
80

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START*
12-23-64

T6S, R21E, SLB&M



X = Corners Located (Brass Caps)

Scale: 1" = 1000'

UINTAH ENGINEERING
& LAND SURVEYING

P. O. Box 100
Cannonville, 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.

Nelson J. Marshall
Registered Land Surveyor
Utah Registration No. 114

DATE
BY
N. J. Marshall
L. C. Kay
T. Wardell
WEATHER Cloudy - Snow

SURVEY
CALIFORNIA OIL CO. HORSESHOE BEND #4
LOCATED AS SHOWN IN THE NW 1/4 NW 1/4 OF
SECTION 35, T6S, R21E, SLB&M, UINTAH
COUNTY, UTAH

DATE 11 Dec. 1964
REFERENCES GLO. Plat
Approved May 1,
1964
FILE Calif. Co.

December 23, 1964

California Oil Company
P.O. Box 455
Vernal, Utah

Re: Notice of Intention to Drill
Well No. HORSESHOE BEND #4
(11-35), 653' PNL & 665' PNL,
Sec. 35, T. 6 S., R. 21 E.,
Uintah County, Utah.

Gentlemen:

Insofar as this office is concerned, approval to drill the above well is hereby granted. However, it is recommended that after setting the surface pipe, the casing be tested at a minimum pressure of 1000 lbs. per square inch. It is further advised that before encountering the anticipated Uinta gas zone, the weight of the drilling mud be sufficient to prevent unloading of the hole.

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, DA 8-5772 or DA 8-5773
Home: CR 7-2890 - Salt Lake City, Utah

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

December 23, 1964

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:sch

cc: Rodney Smith, Dist. Eng.
U. S. Geological Survey
Salt Lake City, Utah

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

Released

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R356.5.

LAND OFFICE Salt Lake City
LEASE NUMBER _____
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Horsehoe Bend

The following is a correct report of operations and production (including drilling and producing wells) for the month of December, 1964,

Agent's address P. O. Box 455 Company California Oil Co., Western Div.
Vernal, Utah Signed R. W. PATTERSON Original Signed by
R. W. PATTERSON

Phone 789-2442 Agent's title Superintendent of Operations

SEC. AND 1/4 OF 1/4	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)
NW NW 35	6S	21E	HSB Federal #4 (11-35)							
Present Conditions										
Casing: 13-3/8", 61#, J-55 cemented at 385' with 425 sacks reg. cmt containing 2% HA-5.										
Operations Conducted										
Moved in Sigal Drilling & Exploration rig #2. Spudded in at 3:00 P.M. 12-28-64. Drilled 11" hole to 425' and reamed 17-1/2" hole to 395'. Cemented 13-3/8" casing in place at 385' with 425 sacks reg. cmt. containing 2% HA-5. WOC.										

NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

OK

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE _____
LEASE NUMBER _____
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Horseshoe Bend

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1965,

Agent's address P. O. Box 455 Company California Oil Co., Western Div.
Vernal, Utah Signed R. W. PATTERSON Original Signed By R. W. PATTERSON

Phone 789-2442 Agent's title Unit Superintendent

SEC. AND 1/4 OF 1/4	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)
Operations Conducted										
Drilled 11" intermediate string hole to 3560'. Ran Schlumberger IES & Micro-Caliper logs. Cemented 8-5/8" casing in place at 3559' with 400 sacks regular cement containing 1% CFR-2. Drilled 7-7/8" hole to 6661'. Cutting 7-13/16" x 4" Core #1 at 6701'.										

NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold; _____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R366.5.
Salt Lake City

LAND OFFICE _____
LEASE NUMBER _____
UNIT _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Horseshoe Bend

The following is a correct report of operations and production (including drilling and producing wells) for the month of January, 1965,

Agent's address P. O. Box 455 Company California Oil Co., Western Div.
Vernal, Utah Signed R. W. PATTERSON Original Signed By R. W. PATTERSON
Phone 709-8442 Agent's title Unit Superintendent

SEC. AND 1/4 OF 1/4	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)
										perfs 3513-32' down 5-1/2" casing with 9,500 gal treated water (fresh H ₂ O) containing .002#/gal FR-6 & .025#/gal WAC-8) containing 6250# 20/40 sand and 1000# 8-12 glass beads at an avg rate of 40.5 BPM at 1750 psi. Cleaned out to 3572' PERD, landed tubing and released rig 1-29-65. Installing test facilities.
SE SW 27	68	21E	HEB Federal #3A (24-27A)							
										<u>Present Conditions</u> Total Depth: 6546' Casing: Cemented 18" conductor pipe at 42' with 200 sacks reg. cement containing 2% HA-5. 13-3/8", 61#, J-55 cemented at 406' with 425 sacks reg. cement containing 2% HA-5. 8-5/8", 24# & 32#, J-55 intermediate string cemented at 3599' with 400 sacks reg. cement containing 1% CFR-2.
										<u>Operations Conducted</u> Finished re-running 17-1/4" hole to 410'. Cemented 13-3/8", 61#, J-55 casing in place at 406' with 425 sacks reg. cement containing 2% HA-5. Drilled 12-1/4" hole to 3600'. Ran Schl. IES, Microlog Caliper & Gamma Ray-Caliper-Sonic logs. Cemented 8-5/8" intermediate string in place at 3599' with 400 sacks reg. cement containing 1% CFR-2. Drilled out cut to 3595, McCullough ran CBL. Drilling 7-7/8" hole at 6546'.
NW NW 35	68	21E	HEB Federal #4 (11-35)							
										<u>Present Conditions</u> Total Depth: 6701' Casing: 13-3/8", 61#, J-55 cemented at 385' w/425 sacks reg. cement containing 2% HA-5. 8-5/8", 32#, 24#, J-55 cemented at 3559' w/400 sacks reg. cement containing 1% CFR-2.

NOTE.—There were _____ runs or sales of oil; _____ M cu. ft. of gas sold;

_____ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.



CALIFORNIA OIL COMPANY

WESTERN DIVISION

P. O. BOX 455 • VERNAL • UTAH

January 19, 1965

CESSATION OF "CONFIDENTIAL" STATUS
CALOILWEST'S HORSESHOE BEND FEDERAL
LEASES, UINTAH COUNTY, UTAH

The State of Utah
Oil & Gas Conservation Commission
348 East South Temple Suite 301
Salt Lake City, Utah

Attention: Miss Kathy G. Warner
Records Clerk

Gentlemen:

In compliance with the agreement made during telephone conversation between F. B. Baker and yourself on January 6, 1965, this letter is notification to the Utah Oil & Gas Commission that it need no longer hold in confidence information relative to Caloilwest's drilling activity on its Horseshoe Bend Federal leases, Uintah County, Utah. Caloilwest's permission to release said information is inclusive herein.

Thank you for your previous attention and consideration.

Very truly yours,

R. W. PATTERSON
Unit Superintendent

LEB/mbb

Salt Lake City

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE
LEASE NUMBER **U-68872**
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State **Utah** County **Uintah** Field **Harrocks Bend**
The following is a correct report of operations and production (including drilling and producing wells) for the month of **February**, 19**65**.
Agent's address **P. O. Box 455** Company **California Oil Co., Western Div.**
Vernal, Utah Signed **R. W. PATTERSON** Original Signed by **R. W. PATTERSON**
789-2442 Agent's title **Unit Superintendent**
Phone

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GAS LIFT RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth of shut down, cause, date and result of test for gasoline content of gas)
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Cut & recovered 84'. Cut Core #6 (6998-7031'). Cut and recovered 39'. Drilled 7-7/8" hole from 7031 to 7160'. Run Schl. I-III, MI-Caliper and CR Sonic logs. Run BHT #1 (6860-6878') 60 min flow. NHTL. Rec. 907' all gas cut and w/specks of oil. Pressures: IH 3806, IF 358, IHI 2727, WF 422, FHI 2840, FH 3284.
Run BHT #2 (6820-6836'). 60 min flow. NHTL. Rec. 453' all water cut and 347' all gas cut and w/flocks of oil. Pressures: IH 3255, IF 364, IHI 2431, IF 399, WF 435, FHI 2133, FH 3244. Run BHT #3 (6760-6776') (K, sand). 60 min flow. NHTL. Rec. 260' all mud cut water and 347' formation water. Pressures: IH 3255, IHI 2901, IF 175, WF 293, FHI 2748, FH 3284. Run BHT #4. Miscam (6675-6711'). Run Schl. Wireline Formation Tester, interval 6699-914'. Tool open for 60 min. No pressure increase. Rec. 600 cc/mud & 1.2 cu. ft total gas. Drilled 7-7/8" hole from 7160' to 7415' TD. Run Schl. I-III, MI-Caliper and CR-Sonic logs. Cemented 5-1/2", 15.5" & 17", 2-33 casing at 7409' w/500 max 50/50 pox containing 10% salt and 1% (FR-2). Released rig at 2:00 p.m., 2-19-65.

SE NE 33 68 21E NEB Federal #5 (42-33)

Present Conditions

Total depth: 427'
Casing: 18" conductor at 40' w/125 max reg. cont. containing 3% CaCl₂,
13-3/4", 61" casing at 419' w/425 max reg. cont. containing 2% HA-5.

Operations Conducted

Moved in Hunter Drilling Co. Rig #10. Drilled 2-21-65. Drilled 12-1/4" hole in 42'. Opened hole to 427' conductor at 40' w/125 max reg. cont. containing 3% CaCl₂. Drilled 12-1/4" hole to 425' w/17-1/4" bit. Cemented 13-3/8" casing at 419' w/425 max reg. cont. containing 2% HA-5. WOC.

NOTE.—There were

NOTE.—Report on this form to be duplicated with the supervisor by

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-BM55.5.

LAND OFFICE Salt Lake City
LEASE NUMBER U-08872
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Utah Field Horseshoe Bend
The following is a correct report of operations and production (including drilling and producing wells) for the month of February, 19 65
Agent's address P. O. Box 455 Company California Oil Co., Western Div.
Vernal, Utah Signed R. W. PATTERSON Original Signed by R. W. PATTERSON
Phone 709-6442 Agent's title Unit Superintendent

SEC. AND 1/4 OF 34	TWP.	RANGE	WELL No.	DAYS Production	BARRELS OF OIL	GRAVITY	WATER	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER	REMARKS
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SE NW 34 6S 21E N2S Federal #2 (22-34)

Present Conditions

Total depth: 7379' **FBED: 7160'**
Casing: 8-5/8", 2 1/2", J-55 cemented at 235' w/135 sacks Reg. cement containing 2% CaCl₂ & 3% NaCl.
5-1/2", 15-1/2" & 17", J-55 cemented at 7205' w/700 sacks 50/50 Pozmix cement containing 10% salt and 1% CFR-2 in two stages.
D.V. collar at 3463'.

Operations Conducted

Spoke down perfor's 6783, 6777 & 6771 (K₁), 6739 (K₁), and 6690, 6681 (J₂) w/150 gal NMA to each perf. Brodenhall fraced perf's 6783, 6777, 6771 (K_{1b}), 6739 (K₁), and 6690, 6681 (J₂) down 5/2" csg w/45,000 gal RC containing 45,000# RA 20/40 sand, 3000# RA 8/12 glass beads, 1000# DSB, and .05#/gal Attinite to an avg rate of 38.7 BPM at 3900 psi. Closed out fill to 7160' (FBED). Ran Schlumberger RA Tracer Log (Gamma Ray). RWH with tubing prod. string, pump and rods. Released rig 2-5-65.

SE NW 35 6S 21E N2S Federal #4 (11-35)

Present Conditions

Total depth: 7415'
Casing: 13-3/8", 6 1/2", J-55 cemented at 385' w/425 sacks reg. cement containing 2% HA-5
8-5/8", 3 1/2" & 2 1/2", J-55 cemented at 3559' w/400 sacks reg. cement containing 1% CFR-2.
5-1/2", 15-5/8" & 17", J-55 cemented at 7409.21' w/500 sacks 50/50 Pozmix containing 10% salt and 1% CFR-2.

Operations Conducted

Finished cutting Core #1 (6661-6717'). Cut 56', rec. 54'. Cut Core #2 (6717-6743'). Cut & rec. 26'. Cut Core #3 (6743-6829'). Cut & recovered 26'. Cut Core #4 (6829-6908'). Cut and recovered 79'. Cut Core #5 (6908-6929').

NOTE.—There were 393.79 barrels of oil and no gallons of water produced.

No

rins or sales of gas or oil.

NOTE.—Report on this form is required from each well producing oil or gas in Utah. Duplicate with the supervisor by the 6th of the succeeding month.

Form 9-329
(January 1950)

USGS, SLC-2; OROCC, SLC-1; Denver-1; 21

Copy
1965

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE Salt Lake City
LEASE NUMBER U-08872
UNIT

Page two

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Horseshoe Bend

The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1965

Agent's address P. O. Box 455 Company California Oil Co., Western Div.
Vernal, Utah Signed R. W. PATTERSON Original Signed by R. W. PATTERSON
Phone 789-2442 Agent's title Unit Superintendent

SEC. AND 1/4 OF 1/4	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)
										No breakdown required. PI 5 bbl FW at 2800 psi. Attempted to Bradenhead frac perfs w/16,100 gal gelled RC containing 13,000# RA 8-12 glass beads and 0.05 #/gal admite at an avg. rate of 32.1 BPM at 4100 psi before screen out. Rate dropped from 44 BPM to 20 BPM at 4100 psi when 3/4#/gal beads hit formation. Remained at 20 BPM until 65 bbl flush in and then perfs screened out. Estimated treatment to formation is - 11,700 gal gelled RC containing 8,600# RA 8-12 glass beads, and 0.05#/gal admite. McCullough ran RA Tracer Survey. Survey indicated all perfs received treatment during Bradenhead frac. Ran in hole with tubing prod. string, pump and rods. Released rig 3-9-65.
SE NE 33	6S	21E	HSB Federal #5 (42-33)							Present Conditions Total Depth: 7373' Casing: 18" conductor at 40' w/125 sacks reg. cement containing 3% CaCl ₂ . 13-3/4", 61# cemented at 419' w/425 sacks reg. cement containing 2% HA-5.
										Operations Conducted Drilled 9" hole to 7084'. Ran DST #1 - (7054-7084, K _A) 1 hr flow. GTS in + 3 min, no gauge on IF. Reopened tool 1 hr later w/GTS immediately, with maximum gauge of 1559 MCFD at 14 psi. Rec 150' V all gas cut HFP oil and 80' all gas cut and hvy oil cut mud. Multiple CIP chamber recovery: 310cc HFP oil, 0.544 cu. ft. gas. Pressures: IHL-3530, IHL-2619, IF-377, FF-113, FSL-1577, FSH-3511. Ran DST #2 (6994-7039, J ₁ & K) 1 hr flow. NITS on IF. Re-opened tool 1 hr later. Strong blow immediately. GTS in 2 min, with maximum gauge of 33.7 MCFD. Rec 30' G & O (HFP) cut mud, 90' all MC & hvy GC HFP oil, 270' hvy GC HFP oil, 285' hvy GC & hvy mud cut HFP oil & 95' G and O cut mud. Multiple CIP chamber recovery: 890 cc oil & 1.077 cu. ft. gas. Pressures: IHL-3511, IHL-2942, IF-151, FF-283, FSL-2545, FSH-3511. Drilled 9" hole to 7119'. Ran DST #3 (7086-7119', K _{2B}), 30 min. flow. NITS. Rec 30' all gas cut mud. Multiple CIP Chamber recovery: 1780 cc mud and 0.35 cu. ft. gas at 35 psi. Pressures: IHL-3530, IHL-94, IF-38, FF-38, FSL-57, FSH-3530. Drilled 9" hole to 7251'. Ran DST #4 (7200-7251', lower K _{2B}), 1 hr flow. NITS on IF. Tool

NOTE.—There were runs or sales of oil; M cu. ft. of gas sold;

..... runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

14.

[Handwritten initials]

[Handwritten initials]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R366.5.
Salt Lake City

LAND OFFICE
LEASE NUMBER
UNIT

U-08872

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Horseshoe Bend
The following is a correct report of operations and production (including drilling and producing wells) for the month of March, 1965
Agent's address P. O. Box 455 Company California Oil Co., Western Div.
Vernal, Utah Signed R. W. PATTERSON R. W. PATTERSON
Phone 789-2442 Agent's title Unit Superintendent

SEC. AND TWP. & R.	TWP.	RANGE	WELL NO.	DATE OPERATED	BARRELS OF GAS PRODUCED	FRAC. PROD.	CU. FEET OF GAS (BY METER)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (IF SEPARATED)	REMARKS
SE SW 34 68	21E	H8B	Federal #1 (24-34)	28	118 ✓	30	806		167 ✓	
SE NW 34 68	21E	H8B	Federal #2 (22-34)	31	2,872 ✓	30	15,097		124 ✓	
NW NW 35 68	21E	H8B	Federal #4 (11-35)	8	34 ✓	30	900		142 ✓	
Total				67	3,024 ✓		16,803		433 ✓	
NW NW 35 68	21E	H8B	Federal #4 (11-35) ✓							

Present Conditions

Total Depth: 7415' PERM: 7350'
Casing: 13-3/8", 614', J-55 cemented at 385' w/425 sacks reg. cement containing 2% SA-5.
8-5/8", 324' & 244', J-55 cemented at 3559' w/400 sacks reg. cement containing 1% CFB-2.
5-1/2", 15.54' & 174', J-55 cemented at 7409' w/300 sacks 50-50 pozzix containing 10% salt & 1% CFB-2.

Operations Conducted

Moved in J. W. Gibson workover rig 3-1-65. Ran Schl. Cement Bond log and Gamma-Ray Collar log. Perf'd w/2 - 3-5/8" shaped charges/ft at 6976-80' (K₂); 6872-78' & 6862-68' (K₂); 6826-29' (K₂); 6690-94' & 6679-86' (J₁). Breakdown perfs 6976-6980' with FW at 2900 psi. Could not breakdown perfs 6872-78' with FW. Spotted 200 gals MCA to perfs, unsuccessful. Breakdown perfs 6862-68' with FW at 3800 psi. Attempted again to breakdown perfs 6872-78' with no success. Breakdown perfs 6826-29' with FW at 2800 psi. Perfs 6690-94' would not breakdown (w/200 gal MCA spotted across same) at 6000 psi. Repeated attempts unsuccessful. Breakdown perfs 6679-86' with FW at 2400 psi. Breakdown perfs 6872-78' with FW at 2900 psi. Checked perfs 6690-94' for possible breakdown.

NOTE.—There were 3,617.20 runs or sales of oil; No M cu. ft. of gas sold;
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

Core #4 6838-6917' (Adj. Schl.) Cut and Rec 79 Ft.

1FT - SH, GRY-GRN AND RED-BROWN
4FT - SLTSTN, GRY GRN, NSOFC
2FT - ANA
2-1/2FT - SLTSTN, ANA
3-1/2FT - SS, GRY-GRN, V ARGILL, LOW P AND P, NSOFC
4FT - SLTSTN, GRY-GRN, NSOFC
2FT - SLTSTN, GRAY, W/BLEBS ASPHALTC RESIDUE
2FT - SLTSTN, ANA
1-1/2FT - SS, GRY-GRN, ARGILL, LOW POR & PERM, NSOFC
2-1/2FT - SS, FR-MED, FAIR SORT, EVEN TAN STAIN, YELL FLUOR,
GOOD STRONG YELL-WHT CUT, 8-12 PERCENT POR LOW TO FAIR PERM
5FT - SS, GRAY, FR-MED, ARGILL, LOW POR, LOW PERM, PATCHY STAIN,
STAINED PARTS HAVE YELL FLUOR, SLOW STRONG WHITE CUT, SH
PARTINGS
3-1/2FT - SS, GY, VFN-MED, ARGILL, LOW POR, & PERM. NSOFC
4-1/2Ft - SS, GY, FINE, WELL SORT, PATCHY DK BRN STN, YELL FLUOR,
GOOD STRONG WHITE CUT, 10-15 PERCENT POR, FAIR PERM, NSOFC
1FT - SS COQUINA, FR-MED OSTROCODS
4-1/2Ft - SLTSTN AND SH INTBDS
2-1/2FT - SH, GRN, CORES AS RUBBLE
1-1/2FT - SS, BRN-GRN, V ARGILL, V FR-FR, LOW P & P, NSOFC
2FT - SH, GRN
2-1/2FT - SS, GY-GRN, ARGILL, V FR-MED, LOW P & P, NSOFC
3FT - SH/CORES AS RUBBLE/INTBDS SLT, GRN, HARD, AND SH, RED-BRN,
SDY, SOFT
8FT - SLTSTN, GRY-GRN, NSOFC
2FT - SS, WHT, V FR-FR, ARGILL, LOW P & P NSOFC
4FT - SH, GY-GRN
2FT - SS, ANA, NSOFC
1FT - SLTSTN, GRY-GRN, NSOFC
4-1/2FT - SH, GRY GRN
2-1/2FT - SLTSTN, GRY-GRN, NSOFC

Core #5 6917-7001' (Adj. Schl.) Cut and Rec 84 Ft.

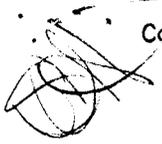
1/2Ft - SS, LT GY-WH, GY-GRN, V SLTY TI, NSOFC
1FT - SM, GRN-GY, PYR, FIRM
2-1/2FT - SS, ANA, TI, NSOFC
1FT - SH, ANA
2FT - SLTST, LT GY-GRN, SH LAM 1/2 TI, NSOFC
8-1/2FT - SS, GY-BF TO LT GY-GRN, V FR TO FN GN AT TOP BEC FR TO MED
FR SORT, LOW P & P, NSOFC
5-1/2FT - SLTST, ANA
2-1/2FT - SS, ANA, LOW TO NO P & P, NSOFC
1FT - SH, ANA
3-1/2FT - SS, LT GY-BF, FR TO V FR GN, LOW POR, NOW PERM,
NSOFC
5-1/2FT - SS, AA W/LOW TO FAIR POR, LOW TO NO PERM, VERY FNT PINPT
YEL FLUOR, V POOR MLKY CUT, NO STN, OR ODOR, LOOKS WET
1FT - SH, ANA
7FT - SS, LT GY-WH, V FR GN, LOW TO FAIR POR, LOW TO NO PERM, PINPT
YEL FLUOR AT TOP, V POOR TO NO CUT, NO STN OR ODOR

CORES: Six cores as follows:

PNP

- Core #1 6670-6726' (adj. to Schl.) - Cut and Rec. 56 ft.
 - 1FT - SLTST, TN GY, THN BD DULL GOLD FLUOR W/WK LEACHED CUT W/BRN SLT LAMS.
 - 3FT- SH, BRN, GY, DOLO W/INTBD SLTST, GY, SDY, NSOFC. 6" SS BED W/CANARY YEL FLUR AND STREAM MILKY CUT, PATCHY BRN STN
 - 3FT - INTBD SH, AA AND SS, GY VFN-FN CALC, OSTRA, PATCHY BRN YEL FLUOR W/STRIN MILKY CUT. VERT FRACT W/FLUOR.
 - 1-1/2FT - SH, GY BRN-BRN, DOLO, CARB INCLS
 - 4FT - SS, LT TN GY, V FN, OSTRA, WELL SORT, VERT FRACT, 3" SHALE STRK IN MIDDLE. BROWN OIL STN, GOOD ODOR, GOOD GOLD FLUOR AND STRONG MILKY CUT.
 - 1-1/2FT - SS, LT GY, VFN-FN, ARGILL NSOFC VERT HAIRLINE FRACT W/GOLD FLUOR.
 - 2FT - SS, LT GN GY, AA, FNT GOLD BRN FLUOR W/WK LEACHED CUT. VERT FRACT W/BRN OIL ALONG FRACT. SS SMELLS WET.
 - 2FT - SS, AA NSOFC W/INTBD SH, GN, DOLO, V FN SDY SS, LT GY, VFN-FN, ARGILL, FR OSTRA, EVEN BRN OIL STN, DOL GOLD FLUOR W/GOOD MILKY CUT. STN BECOMES PATCHY AND LAMINATED IN LOWER PT.
 - 4FT - SS, AA, FN-MED, POOR SORT W/PATCHY DULL GOLD FLUOR, FAIR MILKY CUT, GN SH STRKS IN MIDDLE TO LOWER PT. VERT FRACT W/FLUOR AND BRN OIL STN ALONG FRACT.
 - 1FT - SLTST, LT MED GY, CALC, VFN SDY, HD, TI, VERT FRACT. FNT GOLD FLUOR W/WK LEACHED CUT.
 - 9FT - INTBD SH, GY GN TO BRN, DOLO, IRREG BD, AND SLTST AA, TR OSTRA NSOFC
 - 1FT - SS, LT GY, VFN, TR OSTRA. HD. TI, NSOFC.
 - 3FT - INTBD SH AND SLTST AND NSOFC
 - 4FT - SS, GY BRN, VFN-MED, OSTRA, EVEN BRN STN, GOLD FLUOR W/IMMED MILKY CUT. VERT FRACT. 6" OSTRA COGUINA AT BOT.
 - 8FT - SH, GY GN, V SLTY TO FN SDY, SLI WAVY, VERT FRACT.

CHEVRON OIL CO.
H. B. Fed # 4 (11-35)
SEC. 35, T 6S, R 21E,
Utah Co. Utah



3-1/2FT - SH, ANA
1-1/2FT - SLTST, LT GY-WH, SDY, TI, NSOFC
3FT - SH, ANA
8FT - SLTST, ANA
4FT - SS, LT GY-WHT, FR TO V FR GN, LOW POR, LOW TO NO PERM, RARE
SPECKS ASPHALIC RESID, OTHERWISE NSOFC, MUD GAS T4S/ET
4-1/2FT - SS, BRN, LT GY-GRN, V FN, CN AT TOP BEC MED TO CRS, POR &
PERM LOW TO FAIR, PATCHY LT FRN STN AT TOP AND BOTT, EVEN DK
BRN STN MID 2 FEET, PATCHY TO EVEN PALE YEL TO DULL YEL--BRN
FLUOR/ PIN PT YEL IN PT/, GOOD MLKY YEL STRONG CUT AND RING
2-1/2FT - SH, ANA W/IR SS, PTGS, TI, NSOFC
1-1/2FT - SH, AA
5FT - SLTST, GY TO LT GY, TI, NSOFC MUD GAS AT 79--80 T41/36
1-1/2FT - SS, MOTT FR TO LT BRN, FN TO V FN GN, LOW POR, LOW TO NO
PERM, V PATCHY LT TN TO BRN STN, PATCHY DULL YEL--BRN FLUOR,
FR TO GD STRONG MLKY YEL CUT & RING
4-1/2FT - INTBD SH, ANA, W/V THN SS, PTGS, TI, NSOFC
3FT - SH, GRN AND GY UP 1 FT AND MOTT RED--BRN & GY-GRN BELOW,
BLKY, FIRM

Core #6 7001-7037' (Adj. Schl.) Cut and Sec. 36 Ft.
11FT - SH, MOTT RD-BRN, GY-GRN, PURP, CRN, NOD, OSTRACODAL, SUBWAXY
3FT - SLTST, CRN, GY-GRN, SDY, TI NSOFC
4FT - SS, LT GY-TN, FN TO V FN GN, LD TO NO POR & PERM NSOFC
2FT - SS, LT GY-WH TO TN, FN TO MED GN, POR LOW TO FAIR, LOW PERM,
OSTRACODAL, NSOFC
3-1/2FT - SLTST, ANA NSOFC
9FT - SS, LT GY-BF, FN TO V FN GN W/IR MED TO CRS, LOW POR & PERM,
OSTRACODAL, NSOFC
2-1/2FT - SS, GY-TN, BRN, FN TO V FN W/SCAL MED TO CRS GNS, LOW TO
FAIR POR & PERM, PATCHY LT BRN STN AT TOP - FAIRLY EVEN BRN
STN REST, PATCHY TO EVEN PALE YEL FLUOR, SLL STRONG MLKY YEL CUT
AND RING, OSTRACODAL, MUD GAS T4S/40
4FT - SS, LT GY-WH, BL, FN TO V FN GN W/ABUND MED TO CRS FRACS
QZ & CHL, VERY LOW TO NO POR & PERM, NSOFC

Note: Adjusted Schlumberger core depths indicate that the driller's
interval for core #6 should be reduced by 3 feet in the shale
interval at the top.

CHEVRON OIL CO.

Final Report

Horseshoe Bend #4 (11-35) SEC. 35, T6S, R21E. UNIT #4 CO., UTAH

May 14, 1965

Page 4

3FT - SLTST, GY, GN, VFN SDY, CALC, HD, TI, NSOFC VERT FRACT.
3FT - SLTST AA W/FLOATING MED SD GNS, HD, TI, NSOFC.
BARREL JAMMED.

Core #2 6726-6752' (Adj. Schl.) bbl jammed Cut and Rec. 26 Ft.

3FT - SLTSTN, SDY, TITE, NSOFC.
2FT - SH, GY GRN SLTY.
2FT - SLTSTN, GY-CRN, SDY, TITE NSOFC
1FT - SH, GY-CRN
1FT - SH, RD-BRN
7FT - SS, GY-CRN, SLTY VF-FG, TITE, NSOFC
2FT - SH, RD-BRN
2FT - SLTSTN, GY-CRN SDY, TITE
4FT - SS, GY-CRN SLTY, TITE, NSOFC
2FT - SS, GY, OSTR. FR POR. LOW PERM TO TITE

Core #3 6752 - 6838' (Adj. Schl.) Cut and Rec. 86 Ft.

1FT - SS, GY-CRN, LOW POR & PERM, NSOFC
3FT - SLTSTN, CRN-GY, SDY, NSOFC
5-1/2FT - SS, GY, LOW POR & PERM, NSOFC
7-1/2FT - SS, GY, FN-MED GN, PATCHY-EVEN BRN STN, YELL FLUOR, GOOD CUT, GD POR & PERM
2FT - SLTSTN
1FT - SS, TITE, NSOFC
3FT - SH GRN-GY, 10-15 DEGREE SEDIMENTARY DIP
2FT - SS, GY - FN-VEG, LOW POR & PERM, PATCHY, YELL-BRN, FLUOR 1/2 POOR CUT
2FT - CGL, SDY, TITE, NSOFC
5FT - SLTSTN, TITE
4-1/2FT - SS, FN-VFY, LOW POR & PERM, PATCHY LT TAN STN, PALE YELL FLUOR, WEAK CUT
3-1/2FT - SS. AA NSOFC
11-1/2FT - SS, AA TO MED-CRS AT BASE, TRACE PATCHY STN AT TOP WITH YELL-BRN FLUOR WK CUT, CLOSED FRACTURES
5-1/2FT - SH, GRN, W/SLTSTN SURGRS
7FT - SS, GY-BUFF, LOW POR & PERM, NSOFC
3FT - SH, GRN
3FT - SS, FN-CRS, LOW POR & PERM, NSOFC
7FT - SS, VEG-CRS, PATCHY LT BRN STN, PALE YELL FLUOR, FR CUT, FR POR & PERM, 16 UNIT INCR
3FT - SLTSTN, TITE
5-1/2FT - SS, VF-FG, FR POR, LOW PERM, PATCHY LT BRN STN, FR CUT, TOP 2 FT, 19 UNIT INCR AT TOP 6824-25
1/2FT SH, GRN

HE
JMB

STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
348 EAST SOUTH TEMPLE
SUITE 301
SALT LAKE CITY, UTAH

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number: HORSESHOE BEND FEDERAL #4 (11-35)

Operator CALIFORNIA OIL CO. Address VERMIL, Utah Phone 789-2442

Contractor SIGNAL DRILL & EXPL. CO. Address DENVER, Colo. Phone _____

Location: NW 1/4 NW 1/4 Sec. 35 T. 6 S R. 21 E UINTAH County, Utah.

Water Sands:

<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
<u>From</u>	<u>To</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1.	<u>NONE</u>		
2.			
3.			
4.			
5.			

(continued on reverse side if necessary)

Formation Tops:

Remarks:

NOTE: (a) Upon diminishing supply of forms, please inform the Commission
(b) Report on this form as provided for in Rule C-20, General Rules and regulations and Rules of Practice and Procedure, (See back of form)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.

U-08872

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Horseshoe Bend Area

9. WELL NO.

Federal #4 (11-35)

10. FIELD AND POOL, OR WILDCAT

Horseshoe Bend

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

12. COUNTY OR PARISH

Utah

13. STATE

Utah

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

California Oil Co., Western Division

3. ADDRESS OF OPERATOR

P. O. Box 455, Vernal, Utah

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

At surface 653' FWL, 665' FWL, Sec. 35, T6S, R21E, S16M

At top prod. interval reported below

At total depth

14. PERMIT NO. DATE ISSUED

15. DATE SPUNDED 12-28-64 16. DATE T.D. REACHED 2-16-65 17. DATE COMPL. (Ready to prod.) 3-9-65 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 4821' OL 19. ELEV. CASINGHEAD 4818'

20. TOTAL DEPTH, MD & TVD 7415' 21. PLUG, BACK T.D., MD & TVD 7358' 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 0-7425' ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 6679 - 6980 Green River 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN I-ES, NI-Caliper, GR-Sonic, CBL, GR-CL & RA Tracer 27. WAS WELL CORED Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13-3/8"	61#	305'	17 1/2"	425 sacks cement	
8-5/8"	24# & 32#	3559'	11"	400 sacks cement	
5-1/2"	15.5# & 17#	7409'	7-5/8"	500 sacks cement	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					2 1/2" EUE	7044'	

31. PERFORATION RECORD (Interval, size and number)

2 - 3 5/8" shaped charges/ft at 6976-80, 6872-78, 6862-68, 6826-29, 6690-94 and 6679-86'.

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
6976-80, 6872-78, 6862-68, 6826-29, 6690-94, 6679-86	400 gal. MCA, 11,700 gal gelled crude containing 8500# RA 8-12 glass beads & 0.05#/gal Adomite.

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
	Uneconomic, shut-in with 283 Bbls load oil to recover.						
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 R. W. PATTERSON Original Signed by R. W. PATTERSON Unit Superintendent DATE May 20, 1965

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

USGS, SLC-2; O&GCC, SLC-1; JRW-1; Bob Greider, Denver-1; Well File-1

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 33, 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 CONTENTS 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, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP
K ₃ (b)	6862	6878	60 min test. MPTS. Rec. 907' all GC and w/scum oil. Pressures: IH-3286, IF-898, IH-2717, IF-422, FSI-2240, IF-3224.	Top Green River	3628	(+1205)	
K ₃	6820	6836	60 min test. MPTS. Rec. 453' all GCM & 347' all GCM w/flocks of oil. Pressures: IH-3255, IH-2431, IF-399, IF-435, FSI-2133, IF-3244.	I	6284	(-1451)	
K ₄	6760	6776	60 min test. MPTS. Rec. 260' all GCM & 347' formation water. Pressures: IH-3255, IH-2901, IF-175, IF-293, FSI-2748, IF-3224.	J	6580	(-1747)	
J ₂	6675	6711	Misrun.	K	6715	(-1882)	
Mid. TOR	4596	4616	Misrun.	L	6995	(-2162)	
Lower Green River	6661	6717	Misrun.	Wenatch	7095	(-2262)	
"	6717	6743	Core #1				
"	6743	6829	Core #2				
"	6829	6908	Core #3				
"	6908	6992	Core #4				
"	6992	7031	Core #5				
			Core #6				

MAY 24 1965

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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
California Oil Company, Western Division

3. ADDRESS OF OPERATOR
P. O. Box 455, Vernal, Utah

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface **653' FWL 665' FWL, Sec 35, T6S, R21E, S12M**
At proposed prod. zone

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

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
80 Acre

16. NO. OF ACRES IN LEASE
3555

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.
80 Acre

19. PROPOSED DEPTH
3555

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GL 4821, KB 4834

22. APPROX. DATE WORK WILL START*
June 5, 1965

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2"	13 3/8"	61#	385'	425 Sbs
11"	8 5/8"	24 & 32#	3559'	400 Sbs
7 7/8"	5 1/2"	15 1/2 & 17#	7409'	500 Sbs

It is proposed to plug and abandon the Green River intervals and recomplete as a Uinta Gas sand producer as follows:

1. Set 50 sack slo-set cement plug from 7050-6600' to exclude Green River perms 6679-6980.
2. Cut off 5 1/2" casing at Free point. Set 60 sack cement plug 100' in and 100' out of 5 1/2" casing stub.
3. Set a Castiron bridge plug in base of 8 5/8" intermediate casing at 3555' and cap with cement.
4. Run a Gemma Collar-Cement Bond log. Recement as warranted.
5. Perforate Uinta sand with 2 Jets/ft 3391'-96', 3433'-40', 3346'-48'.
6. Selectively ED perms and Bradenhead frac.
7. Clean out to FBTD, install tree and swab well in.

Present production: Shut-in uneconomic Green River oil well.

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 W. A. Goussard TITLE Acting Unit Superintendent DATE May 28, 1965

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY UTAH OIL AND GAS
CONSERVATION COMMISSION

DATE 6-3-65 by Chas. B. Teight
EXECUTIVE DIRECTOR

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Form approved.
Budget Bureau No. 42-R866.5.

LAND OFFICE **Salt Lake City**
LEASE NUMBER **U-08872**
UNIT

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Utah County Uintah Field Horseshoe Bend

The following is a correct report of operations and production (including drilling and producing wells) for the month of June, 19 65,

Agent's address P. O. Box 455 Company California Oil Co., Western Div.
Vernal, Utah Signed W. A. GOUBEAU

Phone 789-2442 Agent's title Acting Unit Superintendent

SEC. AND 1/4 OR 3/4	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)
NW NW 35	6S	21E	HEE Federal #4		(11-35)					
<u>Present Conditions</u>										
Total Depth: 7415 FRTD: 3545										
Casing: 13 3/8", 61#, J-55 cemented at 385' w/425 sacks reg. cement containing 2% NA-5.										
8 5/8", 32#, 24#, J-55 cemented at 3559' w/400 sacks reg. cement containing 1% CFR-2.										
<u>Operations Conducted</u>										
Moved in J. W. Gibson rig to abandon Green River formation and recomplete as a Uinta gas producer. Set 50 sack regular cement containing 0.3% HE-4 (retarder) plug across interval 7050-6600' (covered perfs 6679-6980). Rigged up casing jacks and pulled 225,000# on 5 1/2" casing. McCullough Free Point Indicator showed casing completely free at 4500' and mostly free at 4750'. McCullough shot off casing at 4750' w/jet casing cutter. POOH w/145 lbs 5 1/2" casing plus cut off jt. Halliburton set 60 sack regular cement plug across interval 4650-4850 (100' in and out of csg. cut off point). McCullough set Baker Cast Iron 8 5/8" Bridge Plug at 3555'. McCullough ran CBL and Gamma Ray-Collar logs. Ran dump bailer w/4 sacks Calseal. Dumped on top of BP at 3555'. Calculated FRTD-3543'. McCullough perforated w/2-super casing jets/ft 3364-68, 3391-96, 3433-40, 3446-48, 3452-56, 3472-74, and 3495-98 (Uinta). Selectively broke down all perfs. Swabbed well in with 4 runs, recovered 25 bbls salt water. Shut well in. Opened well up and gauged at a maximum of 6.4 MCFD. Closed well in, then opened and gauged at maximum of 7.3 MCFD. Landed 2 1/2" production string tubing at 3452.45'. Released rig 6-28-65.										
SE NE 33	6S	21E	HEE Federal #5		(42-33)					
<u>Present Conditions</u>										
Total Depth: 7750' FRTD: 7257'										
Casing: 18" conductor at 40' w/125 sacks reg. cement containing 3% CaCl2.										
13 3/8", 61# cemented at 419' w/425 sacks reg. cement containing 2% NA-5.										

Note.—There were 1,534.71 runs or sales of oil; No M cu. ft. of gas sold;

No runs or sales of gasoline during the month. (Write "no" where applicable.)

Note.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TR. DATE*
(Other instructio. on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

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. U-08872
2. NAME OF OPERATOR Chevron Oil Company, Western Division		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR P. O. Box 455, Vernal, Utah		7. UNIT AGREEMENT NAME Horseshoe Bend Area
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 653' FWL 665' FWL, Sec 35, T6S, R21E, S18M		8. FARM OR LEASE NAME
14. PERMIT NO.		9. WELL NO. Federal # (11-35)
15. ELEVATIONS (Show whether DF, RT, GR, etc.) GL 4821 KB 4834		10. FIELD AND POOL, OR WILDCAT
12. COUNTY OR PARISH Utah		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
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) Recomplete as Uinta Gas Well <input checked="" 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.)*

The following work was completed in the subject well 6-29-65.

1. Set a 50 sack slo-set cement plug from 7050'-6600' to exclude Green River perms 6679-6980.
2. Located free point and cut off 5 1/2" 15 1/2# J-55 casing at 4750'. FOGL. Set 60 sack cement plug from 4850-4650, 100' in and out of casing stub.
3. Set CIBP in base of 8 5/8" 32# J-55 intermediate casing at 3555' and cased with cement. Ran a Gamma collar Cement Bond log.
4. Perfed the Uinta sand with 2 jets/ft 3364-68, 3391-96, 3433-40, 3446-48, 3452-56, 3472-74 and 3495-98.
5. Selectively BD perms and swabbed well in. Gauged 7.2 MCFG/D at 85# TP. Installed tree and released rig.

18. I hereby certify that the foregoing is true and correct
ORIGINAL SIGNED BY
W. A. GOUDEAU
SIGNED **W. A. GOUDEAU** TITLE **Acting Unit Superintendent** DATE **7-15-65**

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

URGE, SLC-3; OAGOC, SLC-2; File-1

August 18, 1965

Chevron Oil Company, Western Division
P. O. Box 455
Vernal, Utah

Well Sheet - In

Re: Well No. Horseshoe Bend #4 (11-35)
Sec. 35, T. 6 S., R. 21 E.,
Uintah County, Utah

Gentlemen:

July, 1965
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

October 13, 1965

Chevron Oil Company, Western Division
P. O. Box 455
Vernal, Utah

Re: Well No. Horseshoe Bend #4,
Sec. 35, T. 6 S., R. 21 E.,
Uintah County, Utah.

Gentlemen:

In checking our files it was noted that this office has not received the Electric and/or Radioactivity logs, or the coring information on the above mentioned well.

It would be appreciated if this office could receive said information.

Thank you for your cooperation in respect to this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

**SHARON C. HUNT
RECORDS CLERK**

sch

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

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 checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER</p> <p>2. NAME OF OPERATOR Chevron Oil Company - Western Division</p> <p>3. ADDRESS OF OPERATOR P. O. Box 599 - Denver, Colorado 80201</p> <p>4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 653' FNL, 665' FWL, NW/4 NW/4, Sec. 35</p> <p>14. PERMIT NO.</p>		<p>5. LEASE DESIGNATION AND SERIAL NO. U-08872</p> <p>6. IF INDIAN, ALLOTTEE OR TRIBE NAME</p> <p>7. UNIT AGREEMENT NAME</p> <p>8. FARM OR LEASE NAME Horseshoe Bend Area</p> <p>9. WELL NO. Federal #4 (11-35)</p> <p>10. FIELD AND POOL, OR WILDCAT Horseshoe Bend</p> <p>11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 35, T6S, R21E, SLBM</p> <p>12. COUNTY OR PARISH 13. STATE Uintah Utah</p>
<p>15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4821' GL</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 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.)*

Federal #4 was originally completed as an uneconomical oil well in the Green River formation in March 1965. It was recompleted as a gas well in the Uinta formation in June 1965 and is presently shut-in as an uneconomical producer. It is proposed to P&A this well as follows:

1. Bleed off pressure. Fill hole with water. Pull tubing.
2. Determine free point of 8-5/8" casing, cut off and pull 8-5/8" casing above free point.
3. Set 100' cement plug in and out of 8-5/8" casing stub. Displace hole with 9.2 ppg mud.
4. Set 100' cement plug in and out of 13-3/8" casing at 385'.
5. Remove well head. Spot 5 sack cement plug and dry hole marker in top of 13-3/8" casing.
6. Remove surface facilities.
7. Clean up and restore location in conformance with State and Federal regulations.

18. I hereby certify that the foregoing is true and correct
 Original Signed by J. W. GREER TITLE Division Dirg. Supt. DATE 5-8-73
 SIGNED J. W. GREER / JCS

(This space for Federal or State office use)
 APPROVED BY [Signature] TITLE DISTRICT ENGINEER DATE 5-8-73
 CONDITIONS OF APPROVAL, IF ANY:

Coordinate surface rehabilitation
with BLM, Vernal
*See Instructions on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1424. 5. LEASE DESIGNATION AND SERIAL NO.

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.)

U-03872 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

1. OIL WELL [X] GAS WELL [] OTHER []

7. UNIT AGREEMENT NAME

2. NAME OF OPERATOR Chevron Oil Company - Western Division

8. FARM OR LEASE NAME Horseshoe Bend Area

3. ADDRESS OF OPERATOR P.O. Box 599 Denver, Colorado 80201

9. WELL No. Federal #4 (11-35)

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 653' FWL, 665' FWL, NW/4 NW/4, Sec. 35

10. FIELD AND POOL, OR WILDCAT Horseshoe Bend

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 35, T6S, R21E, S12N

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4821' GL

12. COUNTY OR PARISH Uintah 13. STATE Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF [] FULL OR ALTER CASING [] FRACTURE TREAT [] MULTIPLE COMPLETE [] SHOOT OR ACIDIZE [] ABANDON* [] REPAIR WELL [] CHANGE PLANS [] (Other) []

SUBSEQUENT REPORT OF:

WATER SHUT-OFF [] REPAIRING WELL [] FRACTURE TREATMENT [] ALTERING CASING [] SHOOTING OR ACIDIZING [] ABANDONMENT* [X] (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.)

- 1. Set plug cement in and out of 8 5/8" stub 1040 - 940'. 50 sacks
2. Set 70 sack plug in and out of 13 3/8" - 435 - 335'.
3. Set 5 sacks with regulation dry hole marker.
4. Reseeded and approved by BLM November 26, 1973.

Get base mud between all plugs.

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

SIGNED [Signature]

TITLE [Title]

DATE [Date]

(This space for Federal or State office use)

APPROVED BY [Signature] CONDITIONS OF APPROVAL, IF ANY:

TITLE [Title]

DATE [Date]

A P I



Chevron Oil Company
Western Division

1700 Broadway, P.O. Box 599, Denver, CO 80201

August 8, 1974

Chevron Oil Company
Federal #4
Sec. 35, T6S, R21E
Uintah County, Utah

State of Utah
Department of Natural Resources
Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Attention Mr. Paul Burchell

Gentlemen:

Attached please find copies of the USGS approval notice and subsequent report of abandonment for the Federal #4 well as requested in your letter of August 1, 1974. As discussed with you today, Utah-Colorado Casing Pullers were used to abandon the well and copies of the cementing tickets are not available.

Very truly yours,

R. W. Patterson
Area Supervisor

PTH:jl
Attachment