FILE NOTATIONS

Entered in N I D File	✓	Checked by Chief	PMB
Entered On S R Sheet		Copy N I D to Field Office	✓
Location Map Pinned	✓	Approval Letter	IN Unit
Card Indexed	✓	Disapproval Letter	
I W R for State or Fee Land			

COMPLETION DATA:

Date Well Completed	2-20-65	Location Inspected	
OW	WW	TA	Bond released
GW	OS	PA ✓	State of Fee Land

LOGS FILED

Driller's Log 3-22-65

Electric Logs (No.) 4

E | I | E-I ✓ | GR | GR-N | Micro ✓

Lat | Mi-L | Sonic ✓ | Others Formation Tester

Subsequent Report of Abandonment

Copy HLC

Form 9-331a
(Feb. 1951)

	18 X		

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R358.4.
Form Approved.

Land Office UTAH
Lease No. U-0385
Unit White River

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	XX	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF 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)

January 26, 1965

Well No. White River 40-18 is located 2231 ft. from {XX S} line and 1949 ft. from {E XX} line of sec. 18

NE NW/SE Sec. 18 (¼ Sec. and Sec. No.) 8S (Twp.) 23E (Range) SLB&M (Meridian)

Wildcat (Field) Uintah (County or Subdivision) Utah (State or Territory)

The elevation of the derrick floor above sea level is to follow ft.

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)

We propose to drill a well at the above location to test the Green River and Upper Wasatch Formations to a depth of 6000'.

Surface casing will consist of 300' of 8-5/8" 24# J-55 cemented to surface. All shows will be tested and, if commercial production is encountered, either 4-1/2" or 5-1/2" J-55 casing will be run and cemented with sufficient cement to protect all pay zones and cover all flowing water sands.

Anticipated spud date: 2-1-65.

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

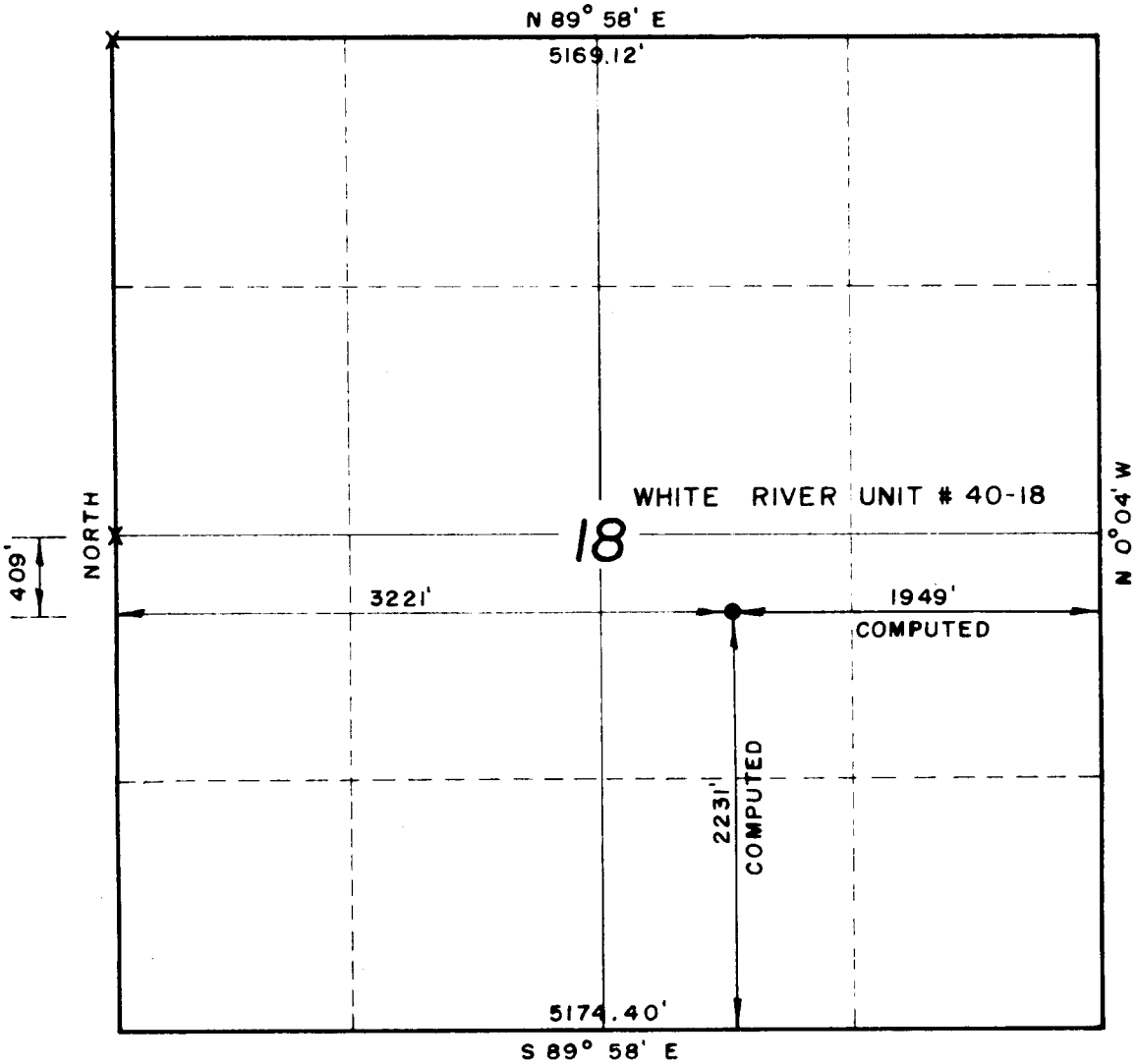
Company BELCO PETROLEUM CORPORATION

Address 304 Main Street, Room 1
Grand Junction, Colorado

By A. Frisch
A. Frisch
Title District Superintendent

GPO 914974

T8S, R23E, 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.

Nelson Marshall
Registered Land Surveyor
Utah Registration No. 2454

PARTY GENE STEWART RAY STEWART	SURVEY BELCO PETROLEUM CORP. WHITE RIVER UNIT # 40-18 WELL LOCATION, LOCATED AS SHOWN IN THE NW 1/4 SE 1/4 OF SECTION 18, T8S, R23E, SLB&M, UINTAH COUNTY, UTAH	DATE 10 DEC., 1964 REFERENCES GLO PLAT APPROVED 31 MAY 1917
WEATHER FOGGY—COLD		FILE BELCO

FORM 5202

Form 9-331
(May 1963)

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.)

5. LEASE DESIGNATION AND SERIAL NO.: U-0385

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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

7. UNIT AGREEMENT NAME: WHITE RIVER

2. NAME OF OPERATOR: BELCO PETROLEUM CORPORATION

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: 304 Main Street, Grand Junction, Colorado

9. WELL NO.: 40-18

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2231' FSL, 1949' FEL, Sec. 18

10. FIELD AND POOL, OR WILDCAT: WHITE RIVER

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec.18-T8S-R23E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5233' Gr., 5245' KB

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	[ ]	PULL OR ALTER CASING	[ ]	WATER SHUT-OFF	[ ]	REPAIRING WELL	[ ]
FRACTURE TREAT	[ ]	MULTIPLE COMPLETE	[ ]	FRACTURE TREATMENT	[ ]	ALTERING CASING	[ ]
SHOOT OR ACIDIZE	[ ]	ABANDON*	[XX]	SHOOTING OR ACIDIZING	[ ]	ABANDONMENT*	[ ]
REPAIR WELL	[ ]	CHANGE PLANS	[ ]	(Other)			[ ]
(Other)			[ ]	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

The above well was drilled to a total depth of 5940'. A conventional DST from 5344-74' recovered 60' of muddy water with a scum of oil, and 720' salty water. Wireline tests @ 5381-83-1/2' and 4107-09-1/2' also recovered water.

We propose to plug the well as follows:

Plug No. 1	5475-5325'	50 sx. cmt.	(Top Wasatch 5461')
No. 2	3500-3425'	25 sx. cmt.	
No. 3	2500-2425'	25 sx. cmt.	
No. 4	475-375'	30 sx. cmt.	(8-5/8" surface @ 422')
No. 5	10-0'	10 sx. cmt.	

A regulation marker will be erected and the location cleaned up as soon as weather conditions permit.

Verbal approval Feb. 19, 1965 by Mr. Smith.

AF:gl
cc: USGS - 3, UOGCC - 3, NY - 2, GULF, Casper - 2, SINCLAIR, Alb. - 1, CALCO, Vernal - 1, Denver - 1, CONOCO, Durango - 1

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

SIGNED A Frisch TITLE District Superintendent DATE 2-23-65

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Belco Petroleum Corporation
304 Main Street
Grand Junction, Colorado

Attention: Mr. A. Frisch, District Supt.

Re: Well No. White River Unit #40-18
Sec. 18, T. 8 S., R. 23 E.,
Uintah County, Utah.

Gentlemen:

This letter is to advise you that the Subsequent Report of Abandonment and Plugging of the above mentioned well is due and has not been filed with this Commission as required by Rule D-2, General Rules and Regulations and Rules of Practice and Procedure, Utah State Oil and Gas Conservation Commission.

Thank you for your attention to this matter.

Very truly yours,

OIL & GAS CONSERVATION COMMISSION

KATHY G. WARNER
RECORDS CLERK

kgw

Orig copy + one copy KSH

Copy Ale

HC

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LAND OFFICE UTAH
LEASE NUMBER
UNIT WHITE RIVER

LESSEE'S MONTHLY REPORT OF OPERATIONS

State UTAH *County* UINTAH *Field* WHITE RIVER

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 304 Main Street
Grand Junction, Colo.

Company BELCO PETROLEUM CORP.

Signed A. Frisch

Phone 242-7202

Agent's title District Supt.

Sec. and ¼ of ¼	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)
9 NESE	8S	22E	15	24	4,696	28.2	1,174			250
9 SWSE	8S	22E	16	28	5,713.38	"	1,828			320
10 SENW	8S	22E	17	28	8,997	"	3,059			340
9 SWNE	8S	22E	19	21	3,731	"	1,193			320
9 SENW	8S	22E	20	28	2,360.48	"	1,700			720
10 NESW	8S	22E	24	28	2,816.55	"	845			300
9 NENE	8S	22E	25	23	5,887.04	"	1,766			300
10 SWNE	8S	22E	27	5	300	"	90			300
3 SWSE	8S	22E	30	5	481	"	144			300
					34,982.45		11,799			
								Flared:	11,799	
18 NWSE	8S	23E	40-18		TD 5940'. P&A 2-20-65. Spudded 2-1-65. Set 8-5/8" 24# J-55 casing at 422' w/300 sx. Reg. w/2% CaCl2 & 3% Salt.					
3 SWSW	8S	22E	29		PTD 3710' - drilling. Spudded 2-23-65. Set 8-5/8" casing at 316' w/240 sx. 2% HA-5.					
10 SENW	8S	22E	17	32			122,528			DUAL OIL-GAS WELL
9 SENW	8S	22E	20	32			45,147			DUAL OIL-GAS WELL

cc: 2 - USGS, 2 - NY, 4 - Conoco, Durango, 2 - Gulf, Casper, 2 - UOGCC, 2 - CalOil, Vernal & Denver, 1 - Pullin, 1 - DCB, 2 - File

NOTE.—There were 35,487 Gross runs or sales of oil; 167,675 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.

Form 9-329
(January 1950)

U.S. GOVERNMENT PRINTING OFFICE 1964—O-729-784

V.

Form 9-330
(Rev. 5-63)

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*

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

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

2. NAME OF OPERATOR: Belco Petroleum Corporation

3. ADDRESS OF OPERATOR: 304 Main Street, Grand Junction, Colorado

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 2231' FSL, 1949' FEL Sec. 18
At top prod. interval reported below
At total depth

5. LEASE DESIGNATION AND SERIAL NO.: U-0385

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME: White River

8. FARM OR LEASE NAME:

9. WELL NO.: 40-18

10. FIELD AND POOL, OR WILDCAT: White River

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: Sec. 18-T8S-R23E

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
2-1-65	2-18-65	P&A 2-20-65	5233' Gr., 5245' KB	

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
5940'	Surface		→	0-5940'	

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: None

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: IES, Micro-Caliper & Gamma Ray-Sonic

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
8-5/8"	24.00	422'	13-3/4"	300 sx. Reg. w/2% $CaCl_2$ & 3% Salt.	None

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*)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	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
1. Sample Description

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

SIGNED A. Frisch TITLE District Supt. DATE 3-18-65

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

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.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Green River	1912'	
Wasatch	5461'	

U.S. GOVERNMENT PRINTING OFFICE: 1963—O-683636

FORM OGCC-8-X

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: White River Unit #40-18

Operator Belco Petroleum Corp. Address 304 Main St. Grand Jct., Colo. Phone 242-7202

Contractor Exeter Drilling Co. Address Denver, Colo. Phone

Location NW ¼ SE ¼ Sec. 18 T. 8S ~~N~~ S R. 23E E ~~W~~ Uintah County, Utah.

Water Sands:

	Depth		Volume	Quality
	From	To	Flow Rate or Head	Fresh or Salty
1.	5350'	5400'	Will not flow.	Salty.
2.				
3.				
4.				
5.				

(Continued on reverse side if necessary)

Formation Tops:

Green River 1912'
Wasatch 5461'

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).
(c) If a water analysis has been made of the above reported zone, please forward a copy along with this form.

BELCO PETROLEUM CORPORATION
BIG PINEY DISTRICT
MARCH 4, 1965

WHITE RIVER UNIT #40-18
2231' N/S & 1949' W/E
Section 18, T8S, R23E,
Uintah County, Utah

Elevations:

Gd	5233'
KB	5245'

FROM	TO	LITHOLOGY
		TOP GREEN RIVER 1912'
2150'	2160'	Sh (80%) vari-col, pred rd brn & yel ss, wh, vfn-med, ang-sbrd, uncons, tr coal
2160'	2170'	AA w/tr glau & blk cht
2170'	2180'	AA w/tr cons buff ss, vfn, rd, calc, also scat ss, gn-wh, fn, sbang-rd, cons, tr dull yel fluor, tr stn, p cut
2180'	2190'	Sh rd-brn, w/scat yel sft calc; ss gy, vfn, sbrd-rd, cons, calc & ss, gn, fn, sbang, calc, tr brn-wh ls
2190'	2200'	AA w/incr in sh 90-95%
2200'	2210'	Sh AA (85%) w/ss, gy-wh to gn, fn-vf, sbang-sbrd, cons to sli uncons, calc, biot mica incl, dull yel fluor, no stn, v/p cut 40% rd-brn sh
2210'	2220'	AA w/30% ss tr fluor
2220'	2230'	Sh AA 20% rd-brn, gy ss bec, vfn-fn, sbrd-rd, cons, v/sli calc, bec sltst in pt
2230'	2240'	Sh rd-brn 15-20%, ss bec more slty AA, no fluor
2240'	2250'	AA w/tr wh ss, f-m, sbang-sbrd, cons, v/sli calc
2250'	2260'	AA w/tr glauc, sh 10-15%
2260'	2270'	AA w/tr sel, sh bec vari-col, 40%
2270'	2280'	AA no sel; sh 60-65%
2280'	2290'	Sh & ss AA sh 70-75%, ss bec more slty
2290'	2300'	Ss, wh-drk gy, vfn-med, ang-sbang, cons-uncons, v/sli calc; v fn ss is drk gy, no fluor; sh (20%)
2300'	2310'	Ss, wh-gy-gn, vfn-c, ang-rd, cons-uncons, sli calc, no fluor; tr coal, sh AA (25-30%)

2310'	2320'	AA w/ss bec v fn, sh (10-15%)
2320'	2330'	AA w/biot mica incls in gy ss
2330'	2340'	Ss AA bec c to cgl, rd & brn sh AA
2340'	2350'	AA w/dec in gr size to vfn-med, sh (30%)
2350'	2360'	Ss, gy to s&p, vfn-med w/scat sltst, cons to v/sli uncons, v/sli calc, no fluor; sltst & sh vari-col, pred, rd & brn, tr coal
2360'	2370'	AA w/35-40% sh
2370'	2380'	AA
2380'	2390'	Ss, wh, med-fn, ang-sbang, uncons to v/sli cons, no fluor or show; sh AA (15%)
2390'	2400'	Ss AA w/sh AA 65%
2400'	2410'	Ss, gy, vfn-med, sbang-sbrd, cons, sli calc; sltst, gy, hd, calc, sh, vari-col, calc, pyr, sh (40%) sltst (40%)
2410'	2420'	Ss, 40%, AA bec f-med, cons-uncons, sli calc, coal & biot incl, also scat feld spar incls
2420'	2430'	AA w/tr coal
2430'	2440'	AA w/vfn-slty wh-gy ss w/hairline frac filled w/asph, pyr; ls buff
2440'	2450'	Ss, gy-gn, med-slty, ang-sbrd, cons to sli uncons, sli calc, coal incls, sh & sltst vari-col, sli calc, 50%
2450'	2460'	AA w/asph on frac planes in ss & sltst, tr coal and glauc
2460'	2470'	AA, 50-50% w/pyr incls in ss, also buff ls
2470'	2480'	AA w/incr in asph filled hairline frac 60% ss
2480'	2490'	AA w/no fracs
2490'	2500'	Ss, gy-wh, med-slty, ang-sbrd, cons, calc, no fluor, coal & gn sh incls
2500'	2510'	AA bec v pyrt & glau, NS, some gy-gn-rd mot sh
2510'	2520'	AA w/incr in sh, mot grn-rd-brn, w/sl pale grn sltst; ss bec c grn biot, NS
2520'	2530'	Ss, tan-wh, v fri, fn gn, w/sl med to c sbrd gns, glauc; sltst dk gy & wh, common, NS; some sh, AA
2530'	2540'	Ss, gy-wh, v fn gn, w/incr in sh, cly, mot some sltst, AA
2540'	2550'	Sh, rd, brn, gn-rd, mot w/s/ sltst & ss, AA
2550'	2560'	Sh, AA sl, calc, w/incr in gy sh, s mdst rd, tr dk brn, hd calc sh

2560'	2570'	S[illegible]gy, wh, v fn, biot, calc, slty[illegible], sl pyr bent, dk gn, rare
2570'	2580'	Sltst, tan-gy, w/incr in sh, gn, gy, brn, mot, few pieces brn, plty sh
2580'	2590'	Sh, AA w/s/ ss & sltst AA, incr in gy bent sh
2590'	2600'	Ss, wh, f-med gr, biot, tt, w/s/ v fn gr dns blky, ss
2600'	2610'	AA, bec v slty to shly dirty
2610'	2620'	Ss, gry, vfn gr, slty, v biot w/incr in sh, mar, gy, mot
2620'	2630'	Sh, AA w/s/ sltst, gy-wh, hd, blky, gy sh has s/ blk carb mat
2630'	2640'	Ss, gy, carb, f-med gr, p srtd, 5%, ls brn f suc, sh in pt w/s/ sh AA
2640'	2650'	Sh, gn, mar, mot, w/s/ ss AA tr ss, wh, f gr suc
2650'	2660'	Ss, gy-wh, f-med c, carb, w/sbrd gr
2660'	2670'	Ss, AA cln, p srted biot
2670'	2680'	Ss, AA, w/1 piece w brn oil stn, yel fluor
2680'	2690'	AA
2690'	2700'	Ss, AA, wet, cln
2700'	2710'	Ss, AA w/few lrg (1-2 mm) sbrd, fros qtzt gr
2710'	2720'	Ss, AA, w/s/cln gr, mostly fros; tr glau
2720'	2730'	Ss, AA, w/incr in biot & carb mat
2730'	2740'	AA w/incr in gy-gn ss, f-gr, tt
2740'	2750'	Ss, gy, f gr, hd, tt, f biot w/s/ ss AA
2750'	2760'	Ss, wh, med to med c, biot w/fros sbrd grs, shrp cln, tt; s/ ss AA
2760'	2770'	AA
2770'	2780'	AA, w/incr in ss, dk gy, v-f gr, blky hd, tt, slty to sh
2780'	2790'	Ss, wh, shly to slty, med to c gr, w/s/ f gr dk gy slty ss, hd, tt, sd gr are clr to sbrd. Few lrg, free floating subrd qtzt gr, fros
2790'	2800'	Ss, AA
2800'	2810'	Ss, gy-wh, calc, slty, biot, w/rd sh incl, tt
2810'	2820'	Aa, bec coaly in pt
2820'	2830'	Ss, AA, bec med-med c gr
2830'	2840'	Ss, AA
2840'	2850'	Ss, AA, bec sl pyr

2850'	2860'	Ss, wh, med to c gr, w/s/ lrg fros gr, subrd
2860'	2870'	AA, w/incr in bri, gn sh
2870'	2880'	Ss, gy-gn, f gr, hd, tt, shrp bec coaly
2880'	2890'	Ss, wh, med to c gr w/interlocked gr, biot, tt, sl pyr
2890'	2900'	AA, bec f gr, w/incr in brn sh
2900'	2910'	Ss, wh, med-med c dirty, p srtd cly,biot, w/incr in brn sh, hd
2910'	2920'	Sh, brn, calc, wxy to slty, w/s/ ss AA
2920'	2930'	Sh, dk brn, calc to dol, oil sh
2930'	2940'	Sh, AA, w/s/ dk gy sil sh
2940'	2950'	Sh, mar, brn wxy, mar, gn mot, sl pyr
2950'	2960'	Sh, med to dk brn, blky, dns,dol
2960'	2970'	Sh, AA
2970'	2980'	Sh, dk brn, dol, oil sh, plty to fir
2980'	2990'	AA
2990'	3000'	AA
3000'	3010'	Sh,med brn, dol, blky to plty
3010'	3020'	Sh, tan to med brn, pyr
3020'	3030'	Sh, AA w/Nahcolite, rare
3030'	3040'	Sh, AA w/s/ sh, gn, sil,calc
3040'	3050'	Sh, dk brn, oil sh, sdy ls w/s/ dk brn oil stn, dull yel fluor, (tr dk gy ls, dns) g brn cut & pale yel fluor
3050'	3060'	Sh, tan to med to dk brn, plty to blky, tr brn, f xln ls
3060'	3070'	AA
3070'	3080'	Sh, brn, dol, AA, w/tr ls, gy, f sdy, biot, tt
3080'	3090'	Ls, tan, f xln, pyr, w/s ss & sh AA
3090'	3100'	Sh, med brn, plty w/lrg Nahcolite xls, free floating & intlam. tr ss, wh & gn wh, med to c gn, dirty, cly w/gilsonite flecks & pods
3100'	3110'	Sh, dk brn, dol, sil AA, w/s/ nahcolite AA
3110'	3120'	AA
3120'	3130'	Sh, tan & dk brn, plty, dol, sil, sltst, wh, rare
3130'	3140'	Sh, dk brn, oil sh, some sltst AA
3140'	3150'	Sh, AA tr ss, gy-wh, dns, tt v f gr, biot

3160'	3170'	Sh, tan & dk brn, plty, spl, dol
3170'	3180'	AA
3180'	3190'	Sh, AA, w/tr ls, tan, f xln, drlg brk (3178'- 3200')
3190'	3200'	AA w/tr ss, wh, f gr, tt, tr sltstn, brn, tr brn mod gn ss, no cut, no fluor
3200'		Circ 20" samp - oil sh, dk brn, sil, dol, NS
3200'		Circ 40" samp - AA w/incr in s/ free floating med gn ss, few pieces lrg pyr; s/ dk brn blk stn on oil sh frac plane, no fluor
3200'		Circ 60" samp - oil sh, NS, no fluor w/s/ ss, wh, f gr, few lrg (3-5 mm) qtzt gr, sbrd, tr sltst, pale gn; few med c subrd qtzt, gr clr to fros
3200'	3210'	Oil sh, dk brn, blky, w/incr in ss, pale gn, v f gr
3210'	3220'	AA, w/incr in tan sh, sft
3220'	3230'	Sh, brn dol blky, w/s/ tan-wh ls, suc, sh is sl pyr
3230'	3240'	Ls brn, dns, f xln, in pt suc, w/s/ brn sh AA
3240'	3250'	Sh, med & dk brn, wxy to dns grd into ls, brn, dol, f xln, s/ free pyr
3250'	3260'	Ls, brn, sh in pt, f xln to suc, w/s/ brn sh AA ss, gy-gn, med f gr, tt, biot, w/rod sh flecks, rr, Nahcolite xls, com to rr
3260'	3270'	Sh & ls, AA w/incr in ss, AA sh buff, sft, wxy, com
3270'	3280'	Ss, gy-gn, carb, med-med c, w/s/ wh c gr fri ss w/sbang to sbrd, gr, tt, 1 piece ss, f-med, gr, wh-rd, tt, no cut, no fluor, ls has dull yel fluor, no vis por
3280'	3290'	Clyst, tan to buff, wxy, sft, w/s/ brn sh AA, s/ ls AA, ss, AA, rr, tr sltst, gy-wh
3290'	3300'	Sh, brn, dol, dns w/s brn ls, AA s/buff mdst tr ss, rd-tan, f-med c gr, slty, tt, NS
3300'	3310'	Sh, brn, dol, AA, w/s/ buff-tan wxy, sft calc sh, tr ss, gy, f-med, biot, calc, dirty, tt
3310'	3320'	Sh, AA w/tr dol, brn, f xln, dnse blky
3320'	3330'	Sh, AA
3330'	3340'	Sh, buff, slty, gran, w/s/ brn dol sh AA
3340'	3350'	Sh, dk brn, lam, plty to blky, w/s/ brn dol f xln, mica
3350'	3360'	Sh, AA
3360'	3370'	Sh, AA, w/incr in ss, wh, med-med c, w/fros, sbrd, gr tt
3370'	3380'	Sh, buff, dk brn, lam, dol & ss, gy-gn, f-med gr, f biot, tt

3380	3390'	Sh, dk brn, dol, lam in pt, w/few pieces v dk brn sh
3390'	3400'	AA w/few pieces gy-gn sh
3400'	3410'	Sh, dk brn, shrp dol, w/s/ buff wxy sh, tr gy-gn sh, AA, few free floating ss gr,med, sbrd
3410'	3420'	Sh, AA w/s/ in cr in ss AA, few pieces ls, buff, shly, dol, shrp, ang
3420'	3430'	AA
3430'	3440'	Sh, AA, w/incr in ss, wh & gr wh, f-med gn, ang, w/intrlkd gr in wh ss & sbrd, tt in gy-wh ss, tt
3440'	3450'	Dol brn ss & ss, AA, ss is fri, ang to sbrd, wh, s/fros & clr gr; ss is approx 15% of smpl
3450'	3460'	Ss, AA, 50% w/sh, dol, brn & buff, 50%; a few pale to med pmica rd gr in ss; gr are fros to clr, sbrd, tt
3460'	3470'	AA w/incr in gr size to c in pt, sbrd grs, NS, Sh, dull yel fluor in pt
3470'	3480'	Sh, dk brn, dol s/s/ bri gn sh, s/free floating ss, gr AA
3400'	3490'	Ss, wh, fn-med gn, v fri cln w/sbrd,fros gns w/s/ sh AA, sh has dull yel fluor, 1 piece tarry dead visc oil globel buff wxy, sft, w/s/ dk brn dol sh
3490'	3500'	Sh, AA w/s/ ss, v fri, free floating gr AA, NS
3500'	3510'	Sh, dk brn-blk, dol hd, dns,wxy, v/sli calc
3510'	3520'	Sh AA w/3-5% ss, wh, vfn-fn, ang-sbang, uncon
3520'	3530'	AA/ w/tr ss
3530'	3540'	Sh AA bec more oil sat, ss AA 3%, w/ tr gn-gy ss, ang, fn, cons, calc
3540'	3550'	AA/ w/5-7% ss, tr pk cht, tr coal
3550'	3560'	AA, buff ls
3560'	3570'	Sh, bec lt brn-brn to buff, oil cont drpd, tr ss AA
3570'	3580'	Sh AA w/tr rd sh, sft, v/sli calc
3580'	3590'	Sh AA w/incr in rd sh - sph on frac; ss, gn, vfn-fn, sbrd-rd, cons, calc p por biot, mica incl
3590'	3600'	AA w/qtzt cgl, silc, hd & tt, sh & sltst, bec vari-col, sft calc
3600'	3610'	Sh, buff-dk brn, hd dns, sli col, v sli calc sph on bd planes; sh vari-col sft, sli calc, sel
3610'	3620'	AA w/ss grd to sltst, blk, pyr, hd & tt, v/sli calc; ss, gy-wh-gn, vf-med, ang-sbrd, cons, g por & perm, wet, v/sli calc, biot mica & feld spar incls 3%
3620'	3630'	AA w/ss bec uncons; tr ls, buff w/tr oil stn, sh, bec dk brn, bec more sat, aph on frac, ss, AA & uncons

3630'	3640'	AA w/ss 3-5%
3640'	3650'	Sh AA/ w/tr ss
3650'	3660'	Sh AA, ss, wh, vfn-fn, ang-sbang, uncons, 3-5%
3660'	3670'	Sh AA w/no ss, tr buff ls
3670'	3680'	Sh & ls AA, ss, wh, vfn, sbrd -rd, cons, tr oil stn, yel fluor, fr cut, 5% ss
3680'	3690'	Sh, AA ls bec marlst in pt, pyr, tr ss
3690'	3700'	AA
3700'	3710'	Ls, buff, h/calc; sh, lt-drk brn, hd, dns, dol, 10%, pyr; ss wh, vfn-fn, ang-sbrd, uncons to cons, sh calc; NS 3%
3710'	3720'	AA w/no ss
3720'	3730'	Ls, AA 35-40%, sh AA
3730'	3740'	Sh AA w/s 5%, ss, vfn-tr med, ang-sbrd, uncons to sli cons, sli calc 3% NS
3740'	3750'	Sh, lt-dk brn, hd, dns, dol, f oil sat, sli calc,asp on frac
3750'	3760'	AA w/s/ 10%, buff, calc, sft, oil cont in sli decr, ss, wh, vfn-fn, ang-sbrd, uncons, 2-5%
3760'	3770'	AA w/ 5-7% ss & bec cons & calc, tr stn, yel fluor, g cut, tr oil, ctc in sh
3770'	3780'	AA sh oil cont in cr, no sat inss
3780'	3790'	AA w/ss bec cons & sli stn, dull yel fluor, f cut 3-5%
3790'	3800'	Ls, wh-buff, sft , calc; sh, lt dk brn, hd, dns, sli calc, ss AA bec uncons & no oil show
3800'	3810'	AA w/tr ss, vfn, sbang-sbrd, cons, sli calc NS
3810'	3820'	Sh, gy-brn, hd, dns, sli calc, w/tr oil ls, pyr
3820'	3830'	Sh AA w/ss, gy, vfn, sbang-sbrd, cons, hd & tt, calc, NS
3830'	3840'	Sh AA w/sh gn, wxy, sft, non calc
3840'	3850'	Sh, buff-dk brn, hd, dns, sli dol, sli calc
3850'	3860'	Sh AA w/ss, dk gy, f, ang-sbrd, cons, sli calc, tr stn, yel fluor, g cut
3860'	3870'	Sh, buff-drk brn, hd, dns, sli dol, sli calc
3870'	3880'	Sh AA w/ss, gy, vfn, sbang-sbrd, cons, slty, calc NS
3880'	3890'	Sh AA
3890'	3900	Sh AA
3900'	3910'	Sh AA w/abnt pyr; ss, wh-gy, f, sbang-sbrd, cons, v/sli stn, p cut 30% ss

3910'	3920'	Sh AA w/ss, gy-brn, f-med, ang-sbang, hd & tt, cons, calc, NS t[illegible]r fluor, v pcut, ss 20%
3920'	3930'	Ss, wh, gy, fn-med, ang-sbang, cons, calc, hd & tt, yel fluor, p cut, scat stn,
3930'	3940'	Ss, wh, gy, fn-med, ang-sbang, cons, calc, hd & tt, yel fluor, p cut, scat stn,
3940'	3950'	Sh, buff-brn, hd, dns, sli dol; s/rd wxy sh, tr pyr, also tr gn wxy sh
3950'	3960'	Sh AA
3960'	3970'	Sh AA 60% w/ss, gy, fn, sbang-sbrd, cons, calc, hd & tt, NS
3970'	3980'	Ss, wh-gy-brn,-gn, f-med, ang-sbang, cons, calc, hd & tt, tr yel fluor, p cut, tr stn
3980'	3990'	Ss, 50%, sh(50%)
3990'	4000'	Ss, lt gy-brn, f-med, ang-sbang, cons, sli calc, tr fri, tr yel fluor, tr stn, p cut
4000'	4010'	Ss, gy-brn-lt blk, slty to f, ang-sbang, cons to sli uncons, sli calc, tr stn, scat yel fluor fr-g cut, grds to sltst in pt; sh gy-lt blk, hd, dns, v/sli calc 30%
4010'	4020'	Ss, AA bec slty w/tr show, 30% sh AA w/sh, rd, sft, wxy, sli calc
4020'	4030'	Ss & sh AA w/tr lt brn-buff ls
4030'	4040'	Sh AA w/ss 5-7%, gy-wh-lt brn, slty-fn, rd-ang, cons to v/sli uncons, calc, hd & tt, w/tr yel fluor, fr cut, tr stn
4040'	4050'	Sh, gy-brn-rd, hd, dns, sli calc, rd is wxy; pyr, blk carb sh, ss, gy-wh, slty-fn, ang-sbrd, cons, calc hd & tt, to fr por
4050'	4060'	Sh AA w/tr ss AA
4060'	4070'	Sh, gy, hd, dn, sli calc; ss, gy-wh, slty-fn, sbrd-rd, cons, calc, hd & tt, biot mica & pk cht in cls, tr stn, scat dull yel fluor, fr cut, 40% ss
4070'	4080'	Sh AA w/tr ss AA, pyr
4080'	4090'	Ss, 60%, gy-brn, slty-med, ang-rd, cons to sli uncons, only tr yel fluor, fr cut, p stn, sh AA
4090'	4100'	Ss AA bec sltst & gy, hd & tt, calc, NS 80%; sh AA
4100'	4110'	Sh AA w/tr ss
4110'	4120'	Ss, wh-gn-lt brn, vfn-fn, sbang-rd, cons, sli uncons, calc, biot NS; sh, brn-buff, gy, hd, dns, sli calc
4120'	4130'	Ss, wh-gy, slty-fn, sbang-rd, cons, v/sli calc,scatt stn, hd & tt, fr por, scat dull yel fluor, p-fr cut, 40%, sh & sltst AA, blk carb sh
4130'	4140'	Sh, lt-dk gy, hd, dns, v/sli calc; tr ss AA w/NS
4140'	4150'	Sh AA w/tr carb sh

4150'	4160'	AA
4160'	4170'	Sh AA
4170'	4180'	Sh AA w/lt brn hd calc, sltst w/dull yel fluor, no stn, fr cut 60%
4180'	4190'	AA w/30% sltst AA
4190'	4200'	AA w/tr buff ls- 10% sltst AA
4200'	4210'	Sh gry/buff, slty/vf g rnd/sbrd calc cons scat oil stn, dull yel fluor g cut 5% tr buff ls
4210'	4220'	AA 10% ss tr rd/gn sh
4220'	4230'	AA ss bec v/slty 5%
4230'	4240'	Sh AA bec v slty, tr ls AA
4240'	4250'	Sh AA 80% w/20% gy/gn, sltst NS
4250'	4260'	Sh brn/buff hd, orng, sli calc, oil sat, in pt, tr buff ls w/ABD OST, tr pyr
4260'	4270'	AA sh bec dk gy/brn, tr lg AA
4270'	4280'	Sh AA w/10% ss lt gy/wh, slty/vf gr sbrd/rd, cons hd, tt calc ost & bio mica incl, dull yel fluor, p cut
4280'	4290'	AA w/3% ss, scat carb sh, tr gy/buff ls
4290'	4300'	Sh AA no ss, 20% buff dns ls sft
4300'	4310'	Sh, buff-brn, dns, sli dol, calc; sh, gn, wxy
4310'	4320'	Sh AA w/scat rd wxy sh
4320'	4330'	Sh AA: ss, 5%, lt gy, vfn, sbang-sbrd, cons, sli calc, tr ls, buff abnt ost, dull yel fluor, p cut
4330'	4340'	AA
4340'	4350'	Sh, buff-tan, dk brn, dns, hd, sli dol, sli dol, sli calc, w/tr rd wxy sh
4350'	4355'	Sh, med-dk brn, hd, dns, sli dol, sli calc, tr blk carb sh
4355'	4360'	Sh AA w/tr rd wxy sh
4360'	4370'	Sh AA
4370'	4380'	Sh AA w/tr ss, wh, fn, sbang-sbrd, cons, sli calc, w/tr sltst gy
4380'	4390'	Sh AA w/scat blk carb sh, tr sltst, gy, hd, dns, v/sli calc
4390'	4400'	Sh, gy-tan-brn-rd-gn, dns, hd, sli dol, some wxy
4400'	4410'	Sh AA w/incr in rd wxy sh
4410'	4420'	Sh AA /tr ss, lt gy, vfn, sbrd-rd, cons, calc, slty
4420'	4430'	Sh AA w/sh, gn, wxy, w/tr ss, gn, med, sbang, cons, sli calc
4430'	4440'	Sh, rd-gn, wxy, calc

4440'	4450'	Sh AA w/tr sltst, gy-gn, sft calc
4450'	4460'	Sh AA w/ss 1%, gy-gn, vfn, sbang-sbrd, cons, slty, calc w/ 1 piece brn f, ang, cons, yel fluor, fr cut, no stn
4460'	4470'	Sh AA w/tr ss, wh-gy, f-med, ang-sbang, cons, calc, tr yel fluor, tr cut
4470'	4480'	Sh, buff-tan-brn, hd, dns, calc, sli dol
4480'	4490'	Sh AA w/tr ss, gy, fn, sbang-sbrd, cons, calc, slty
4490'	4500'	Sh, gy-rd, gn, wxy, w/sh AA
4500'	4510'	Sh, AA w/tr sh, purp, wxy
4510'	4520'	Sh, AA w/tr sltst, gy, sft, calc,tr pyr
4530'	4540'	Sh, brn, hd, dns, calc, sli dol
4540'	4550'	Sh AA w/tr pyr
4550'	4560'	Sh AA w/tr ss, gy, vfn-sbrd-rd, cons, calc
4560'	4570'	Sh, gy, hd, slty, w/s sndy, calc
4570'	4580'	Sh AA w/tr sltst, gy, hd, tt
4580'	4590'	Sh, gy-gn-rd, hd to sft, w/s wxy
4590'	4600'	Sh AA w/s brn, hd, dns, w/tr sltst, gy, sft, calc
4600'	4610'	Sh AA
4610'	4620'	Sh AA w/tr sltst, lt gy, hd, calc
4620'	4630'	Sh AA w/ss lt-med gy, fn, sbrd-rd, cons, hd & tt, calc, no show, 30%
4630'	4640'	AA w/tr tan ost ls
4640'	4650'	Ss &sh AA w/ss bec slty in pt
4650'	4660'	Sh, vari-col, hd & sft, dns, wxy, sli dol, sli calc
4660'	4670'	Sh AA w/20% ss, wh-gn-gy, fn, sbrd-cons, hd & tt, calc, slty, NS
4670'	4680'	Sh AA w/30% ss, wh-gn-gy, slty-vfn, cons, hd & tt, calc, grdg to sltst
4680'	4690'	Sh, gy to gn-gy, rd, slty, wxy, calc
4690'	4700'	Sh AA
4700'	4710'	Sh AA w/tr ss, gy, med, ang-sbang, cons, calc, NS
4710'	4720'	Sh, buff-brn, hd, dns, sli dol, sli calc
4720'	4730'	Sh, AA

4730'	4740'	Sltst, gn-gy, sft, calc
4740'	4750'	Sltst AA w/sh gy-gn, firm calc
4750'	4760'	Sh, dk brn, hd, dns, sli dol, sli calc
4760'	4770'	Sh AA w/tr gn sh
4770'	4780'	Sh AA
4780'	4790'	Sh AA
4790'	4800'	Sh AA w/tr sh qtzt ss med-c, ang
4800'	4810'	Sh AA w/kd brn sltst, sil, hd
4810'	4820'	Sh AA w/1-2% ss, wh-gy, slty-vf, sbrd-rd, uncon-cons, calc hd & tt
4820'	4830'	Sh, gy-dk brn, hd, dns, lmy, calc; also sh, rd,sft, calc, tr blk carb sh
4830'	4840'	Sh AA w/coal & ls tan-buff, sft, calc; sltst, gy-gn, hd, calc w/tr wh uncons qtzt sd, ang
4840'	4850'	Sh AA w/40% ss, lt gy, slty-vf, sbrd, cons, calc, tr yel fluor, p cut, no stn
4850'	4860'	AA w/ss bec fn, tr buff ls; tr blk ost ls
4860'	4870'	Sh AA w/tr ss AA bec slty
4870'	4880'	Sh AA w/sltst, brn, grdg to vf ss, hd, calc
4880'	4890'	Sh, gy, dh-sft, calc, sli wxy, w/scat dk brn-blk carb sh; ss lt-dk gy, vf-slty, sbrd-rd, cons, hd & tt, calc 3%
4890'	4900'	AA w/ss bec f & ang, sli uncons
4900'	4910'	Sh AA w/scat ss AA bec slty
4910'	4920'	Sh AA
4920'	4930'	Sh AA
4930'	4940'	Ss, wh-gy-gn, f-med, ang-sbang, cons, hd & tt, to fr por, calc, biot mica, feldspar & tr gn cl mnrl incl; wet
4940'	4950'	Ss AA
4960'	4970'	Sh, brn, rd-brn, hd, dns, calc; gn sh, sli calc, wxy; scat ss AA bec brn, f-vf, cons, calc, NS
4980'	4990'	Sh AA w/tr ss AA
4990'	5000'	Sh AA w/2-3% ss, gy, vfn-slty, rd, cons, hd & tt, calc, NS
5000'	5010'	Sh AA w/ss, brn-gy-wh-gn, f-med, ang-sbrd, cons, calc, tr yel fluor, g cut, no stn
5010'	5020'	Sh, gy-brn, hd, dns, sli calc; w/scat gy-brn sltst, calc, 20%

5020'	5030'	Sh AA w/3-5% sltst AA
5030'	5040'	AA
5040'	5050'	AA
5050'	5145'	Sh & sltst AA
5145'	5165'	Ss, wh-gy, vfn-fn, sbang-sbrd, cons, calc, sli slty in pt, tr yel fluor, no stn,p-wk cut, circ out
5165'	5170'	Sh, gy-brn, hd, dns, sli dol, sli calc w/tr ss AA
5170'	5180'	Sh AA w/sltst, gy-brn, sft, calc, 10%
5180'	5190'	Sh & sltst AA
5190'	5200'	Sh & sltst AA w/60% sltst
5200'	5210'	AA
5210'	5220'	AA
5220'	5230'	Sh, gy-dk brn, hd, dns, sli dol, sli calc; sltst, gy-brn, sft, calc, 3-5%
5230'	5240'	Sh & sltst AA
5240'	5250'	AA
5250'	5260'	AA
5260'	5270'	AA w/5-7% sltst
5280'	5290'	AA w/15-20% sltst AA in pt, sdy
5290'	5300'	AA /40% sltst, gy-brn, sft, calc
5300'	5310'	Ost & coq, tan-gy-brn, f-med, wh cht mtx, hd & tt, yel fluor, no cut, 10%
5310'	5320'	Sltst, gy-brn, hd, calc
5320'	5330'	Ost & coq AA 60%
5330'	5340'	Sh AA w/5-7% ost & coq
5340'	5350'	Ost & Coq lt-dk brn, f-c, ost, wh cht & ls mtx, hd & tt, to fr por, scat yel fluor, tr stn, strng to no cut
5450'	5460'	AA 100%
5460'	5470'	AA 100%, top Wasatch 5461', sh, vari col, hd, slty, calc
5470'	5480'	Ss, wh, lt gy, qtzc, fpmed, ang-sbang, cons, calc, hd & tt to fr por, w yel fluor, p-fr cut, 30% ost & coq; sh AA
5480'	5490'	Ss AA 40% sd, sh & ost AA
5490'	5500'	Ss AA 5% sh & ost AA
5500'	5510'	Sh, vari-col, sft-hd, sli calc, s/scat ss AA top TW

5510'	5520'	Ss, 40%, wh-lt gy, f, sbang-sbrd, cons, calc; tr brn ls & scat s[illegible]t, AA
5520'	5530'	Ss, sltst & sh AA 30% ss
5530'	5540'	Ss, 50%, wh, vfn, sbang-rd, cons, calc, hd & tt, grdg to sltst
5540'	5550'	Ss, 50% wh, fn-med, ang-sbang, cons, calc, hd & tt, wh cht incls, Sh AA
5550'	5560'	Sh, vari-col, hd-sft, wxy, slty, sdy in pt, 10% ss AA
5560'	5570'	Sh AA w/ss AA 10%
5570'	5580'	Sh AA
5580'	5590'	Ss, wh-gy-brn-gn, vf, sbrd-rd, cons, calc, grds to sltst, tr wh & blk cht, tr coal, 10% ss; sh AA
5590'	5600'	Sh AA w/10% ss AA; tr ls, w/ch & qtzt incls
5610'	5620'	AA
5620'	5630'	AA
5630'	5640'	Sh AA w/ss, wh-gy, vf-slty, sbrd-rd, cons, hd & tt, NS, prbly gas 10%
5640'	5650'	Sh & ss AA w/3-5% ss, grdg to sltst
5650'	5660'	Sh AA w/tr ss
5660'	5670'	Sh Vari-col, sft-hd, wxy, slty, sdy in pt; ss, wh, vf-f, ang-sbang, cons-uncons, calc, 30%
5670'	5680'	Sh AA & ss AA 10%
5680'	5690'	Sh AA & ss 5 %
5690'	5700'	Sh AA & ss AA tr
5700'	5710'	Sh AA
5710'	5720'	Sh, vari-col, sft-hd, wxy, slty, sdy in pt
5720'	5730'	Sh AA
5730'	5740'	Ss, wh-gy, f-med, ang-sbang, cons to sli uncons, calc, NS
5740'	5820'	Sh, vari-col, hd, sli slty, calc
5820'	5830'	Ss, wh, slty-vfn, sbrd-rd, cons, hd, calc NS
5830'	5890'	Sh, vari-col, hd, sli slty, calc
5890'	5940'	Ss, wh-gy, vf-f-sbang-sbrd, cons, calc cln, NS 60% ss; sh AA

T.D. 5941'

CL1-51 (REV. 1964)
PRAIRIE PUBLISHING CO.—66150

CHEM LAB

WATER ANALYSIS EXCHANGE REPORT

MEMBER	California Oil Company	LAB NO.	20839 REPORT NO.
OPERATOR	Belco Petroleum Corporation	LOCATION	NW SE 18-8S-23E
WELL NO.	40-18	FORMATION	Green River L
FIELD	White River Unit	INTERVAL	5344-5374
COUNTY	Uintah	SAMPLE FROM	DST 1 L Sand
STATE	Utah	DATE	March 4, 1965

REMARKS & CONCLUSIONS: Slightly cloudy water.
Recovered 60 feet WCM with oil scum; 720 feet salt water.

Cations	mg/l	meq/l	Anions	mg/l	meq/l
Sodium	6,910	300.55	Sulfate	1,150	23.92
Potassium	20	0.51	Chloride	9,900	279.18
Lithium	2	0.29	Carbonate	0	-
Calcium	120	5.99	Bicarbonate	439	7.20
Magnesium	36	2.96	Hydroxide	-	-
Iron	absent	-	Hydrogen sulfide	absent	
Total Cations		310.30	Total Anions		310.30

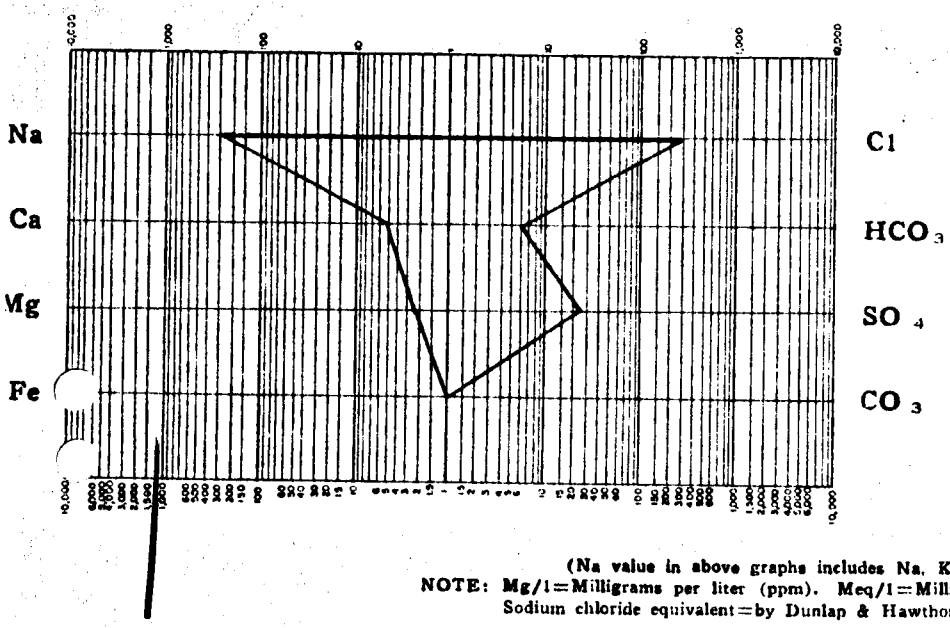
Total dissolved solids, mg/l	18,354
NaCl equivalent, mg/l	17,712
Observed pH	8.1

Specific resistance @ 68°F.:
Observed 0.415 ohm-meters
Calculated 0.395 ohm-meters

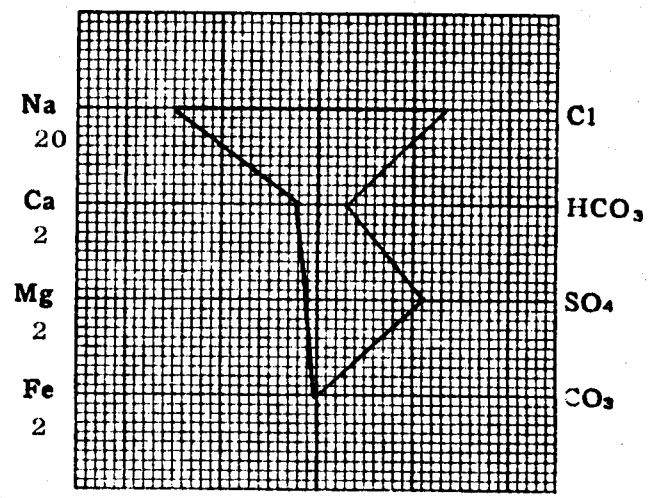
WATER ANALYSIS PATTERNS

MEQ per unit

LOGARITHMIC



STANDARD



(Na value in above graphs includes Na, K, and Li)
NOTE: Mg/l = Milligrams per liter (ppm). Meq/l = Milligram equivalents per liter
Sodium chloride equivalent = by Dunlap & Hawthorne calculation from components

XXXXXXXXXXXXXXXX
XXXXXXXXXXX
XXXXXXXXXXX
348 East South Temple
Suite 301
Salt Lake City, Utah
March 22, 1965

Belco Petroleum Corporation
304 Main Street
Grand Junction, Colorado

Attention: Mr. A. Frisch, District Supt.

Re: Well No. White River Unit #40-18
Sec. 18, T. 8 S., R. 23 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

Form 9-331
(May 1963)

U ED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions 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.)

5. LEASE DESIGNATION AND SERIAL NO.: U-0385

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER Dry

7. UNIT AGREEMENT NAME: White River

2. NAME OF OPERATOR: Belco Petroleum Corporation

8. FARM OR LEASE NAME:

3. ADDRESS OF OPERATOR: 304 Main Street, Grand Junction, Colorado

9. WELL NO.: 40-18

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface: 2231' FSL, 1949' FEL Sec. 18

10. FIELD AND POOL, OR WILDCAT: White River

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 18-T8S-R23E

14. PERMIT NO.:

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 5233' Gr., 5245' KB

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	☐	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*	X
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The above well was plugged and abandoned on 2-20-65 as follows:

Plug No. 1	5475-5325'	50 sacks cement	(Top Wasatch 5461')
No. 2	3500-3425'	25 sacks cement	
No. 3	2500-2450'	25 sacks cement	
No. 4	475- 375'	30 sacks cement	(8-5/8" Surf. Csg. @ 422')
No. 5	10- 0'	10 sacks cement.	

A regulation marker has been erected and the location ready for inspection.

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

SIGNED A. Frisch TITLE District Superintendent DATE 7-18-65

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side