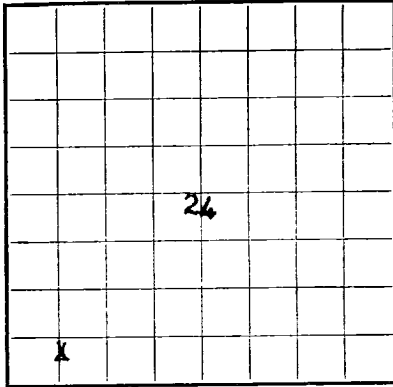


U. S. LAND OFFICE Tribal  
SERIAL NUMBER 14-20-603-2076  
LEASE OR PERMIT TO PROSPECT \_\_\_\_\_



LOCATE WELL CORRECTLY

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Shell Oil Company Address 705 W. Municipal Drive, Farmington  
Lessor or Tract Tribal - Burnham Field Wildcat State New Mexico N. Mex.  
Well No. 14-24 Sec. 24 T. 26N R. 15W Meridian NMPM County San Juan  
Location 560 ft.  $\left[ \begin{smallmatrix} N \\ S \end{smallmatrix} \right]$  of S Line and 4620 ft.  $\left[ \begin{smallmatrix} E \\ W \end{smallmatrix} \right]$  of E Line of Sec. 24 Elevation 5813 KB  
(Derrick floor relative to sea level)

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

Signed \_\_\_\_\_ Original signed by E. W. SHEPARD

Date January 1, 1959 Title Exploitation Engineer

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

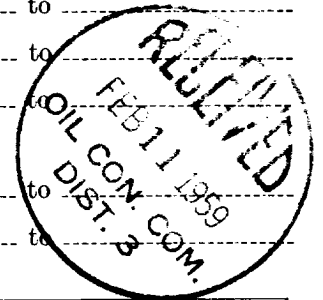
Commenced drilling November 23, 1958 Finished drilling December 7, 1958

OIL OR GAS SANDS OR ZONES  
(Denote gas by G)

No. 1, from None to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_



CASING RECORD

Size casing	Weight per foot	Threads per inch	Viscosity	Diameter of pipe	Casing and pulled from	Perforated		Purpose
						From-	To-	
<u>8-5/8"</u>	<u>24</u>	<u>8</u>	<u>Net 1</u>	<u>132</u>	<u>baker</u>			<u>surface</u>

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>142</u>	<u>125</u>	<u>Displacement</u>	<u>--</u>	<u>--</u>

MARK

PLUGS AND ADAPTERS

FROM-	TO-	TOTAL FEET	FORMATION
770	896	126	Pictured Cliffs
896	1070	174	Lewis
1070	3208	2138	Cliff House
3208	3375	137	Point Lookout
3375	4235	890	Mancoes
4235	4700	465	Gallup
4700	5079	379	Sanshee
5079	5162	83	Greenhorn
5162	5428	266	Nakota
5428	-	-	Morrison

**FORMATION RECORD**

J. Specker, Driller  
 C. Adams, Driller  
 F. Hancock, Driller  
 Prinkertoff Drilling Co., Driller

**EMPLOYEES**

Abandoned as a "dry hole" December 10, 1950  
 The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_% was oil; \_\_\_\_\_% emulsion; \_\_\_\_\_% water; and \_\_\_\_\_% sediment.  
 If gas well, cu. ft. per 24 hours \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. \_\_\_\_\_  
 Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Gravity, °Be. \_\_\_\_\_  
 Put to producing \_\_\_\_\_, 19\_\_\_\_

**DATES**

Rotary tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

**TOOLS USED**

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

**SHOOTING RECORD**

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

SHELL OIL COMPANY

Burnham  
WELL NO. 14-24

DRILLING REPORT

FOR PERIOD ENDING

12-9-58

Widcat

(FIELD)  
San Juan New Mexico  
(COUNTY)

24  
(SECTION OR LEASE)  
T26N R15W  
(TOWNSHIP OR RANCHO)

DAY	DEPTHS		REMARKS
	FROM	TO	
12-9	5437	TD	<p>DST #3 5350-5437 Johnston Testers, Two 6-5/8" BT packers at 5344 and 5350, 3/4" subsurface bean, 1" surface bean, perforations 5350-72 and 5405-14. Three pressure recorders: Amerada - 5419, "T" - 5427 and "T" - 5433. Used 30' (0.15 bbls) air cushion. Initial shut in 45 minutes, open 2 hours, Final shut in 2 hours. Recovered 270' (1.3 bbls) watery mud, trace oil, odor of gas. ISIP 2530, IFF 70, FFP 155, FSIP 2405, HP 2765/2755.</p> <p>With open end drill pipe plugged as follows:</p> <p style="padding-left: 40px;">5436 - 10 sacks cement 5225 - 30 sacks cement 4289 - 40 sacks cement 1139 - 30 sacks cement 824 - 30 sacks cement 160 - 30 sacks cement</p> <p>Located top of top plug at 85'. Installed marker and abandoned. Released rig 7:30 A.M. 12-10-58.</p> <p style="text-align: center;">Checked BOP Daily</p> <p style="text-align: center;">Mud Summary</p> <p style="padding-left: 40px;">Wt. 9.5-9.6 #/gal Vis 41-60 sec WL 3.6-11 cc FC 1-2/32"</p> <p style="text-align: right;">Contractor: Brinkerhoff Drilling Co. Drillers: J. Speaker E. Babcock C. Adams</p> <p style="text-align: right;">Brinkerhoff Pusher Jim Babcock</p> <p style="text-align: right;">Shell Pushers Bruce Ferguson R. A. Standifer</p>

CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
12 1/4	0	142	8-5/8"	142'
7-7/8"	142	5437		
DRILL PIPE SIZES				
4 1/2				

*GRD*

SHELL OIL COMPANY

Burnham 14-24  
WELL NO.

DRILLING REPORT  
FOR PERIOD ENDING

12-9-58

Wildcat  
(FIELD)  
San Juan, New Mexico  
(COUNTY)

24  
(SECTION OR LEASE)  
T26N R15W  
(TOWNSHIP OR RANGE)

DAY	DEPTHS		REMARKS
	FROM	TO	
11-23 to 11-24	0	1462	Location: 560' N and 4620' W of SE Corner Sec. 24, T26N, R15W, NMPM, San Juan County, New Mexico  Elevations: GR 5804.3 DF 5812.1 KB 5813.3  Spudded 2:30 P.M. 11-23-58. Ran and cemented (132') 8-5/8", 28#, J-55 casing at 142' with 125 sacks cement treated with 2% calcium chloride. Good returns to surface. Flanged up and waited on cement. Pressure tested casing and BOP with 700 psi, OK.
11-25 to 11-30	1462	4433	Drilled 2928', Cored 50', Core #1 4383-4433, Rec. 50' sand and siltstone, DST 31 4360-4433 Halliburton testers, two 6-3/4" packers at 4355 and 4360, 5/8" subsurface bean 1" surface bean, perforations 4360 to 4367, 4423 to 4430. Three pressure recorders, 4340 (out), 4360 (out), 4428 (out). Used 41' (0.2 bbls) air cushion. Initial shut in 45 minutes open 1 hour, final shut in 60 minutes. Recovered 40' (0.2 bbls) muddy water and watery mud. ISIP 50, IFP 30, FFP 30, FSIP 1485, HP 2165/2165.
12-1 to 12-5	4433	5222	Drilled 739', Cored 50', Core #2 5172-5222, Rec. 50' sand and siltstone DST #2 5142-5222 Halliburton testers, two 6-3/4" packers at 5139 and 5142, 5/8" subsurface bean, perforations 5142-5144 and 5217-5222, 30' (0.15 bbl) air cushion. Used three pressure recorders (out) at 5207, 5212, and 5217. Initial shut in 60 minutes, open 1 hour, final shut in 90 minutes, recovered 30' mud (very slightly gas cut) ISIP 130, IFP 60, FFP 95, HP 2645/2645, FSIP 360.
12-6 to 12-8	5222	5437	Drilled 115'. Ran Induction-Electrical Survey, long Lateral of Electrical log, and Microlog. Took 30 sidewall samples in two runs.



CONDITION AT BEGINNING OF PERIOD				
HOLE			CASING SIZE	DEPTH SET
SIZE	FROM	TO		
DRILL PIPE SIZE				

SHELL OIL COMPANY

AREA OR FIELD East Burnham  
 COMPANY Shell Oil Company  
 LEASE AND WELL NO. 14224

WEEK ENDING 13 December 1958

CORE RECORD  
 (SIDEWALL)

CORE FROM 4187 TO 5415

CORES EXAMINED BY L. D. Holcomb

NO.	F/100 At	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS	
							OIL-GAS	CORE OR DITC
6	5302		1"	Claystone, dark gray with slight brownish cast, waxy, very slightly calcareous.	C			
5	5308		3/4"	Claystone, as above, but with rare very fine sand grains, Pyrite flecks, rare carbonaceous material, and rare fish remains.	C			
4	5339		1"	Siltstone, medium gray with brownish cast, somewhat waxy on broken surfaces, abundant very fine sub angular to angular sand grains scattered throughout, rather rare mica (Muscovite), rather common carbonaceous material.	1			
4	5357		Frag-ments	Sandstone, light gray, quartzitic, fine to medium, sub angular to angular grains, rare scattered carbonaceous material, weak fluorescence in mud, fragmented and mud-shot.	S			
3	5362		1/2"	Sandstone, light gray, quartzitic, fine to medium, sub angular to angular grains, clay matrix, rare scattered carbonaceous material, solid bright yellow fluorescence.	S			
3	5374		Frag-ments	Sandstone, as above.	S			
1-1	5415		1 1/4"	Sandstone, light gray, quartzitic, fine to medium, rounded to sub angular with rare rounded to sub rounded quartz grits, abundant clay interstitial material, rather rare vari-colored minerals, rare scattered Glauconite (?).	S			
1-2	5415		1 1/4"	Sandstone, as above. Claystone, light gray with greenish cast, rather rare scattered sand grains throughout.	2			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%), 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%), 2-CLAY OR SHALE AND SAND (SAND 25-60%), 3-SAND WITH SHALE STREAKS (SAND 60-90%), S-SAND (90-100%).  
 NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

WEEK ENDING 13 December 1958

AREA OR FIELD East Burnham

CORE FROM 4187 TO 5415

CORE RECORD

COMPANY Shell Oil Company

LEASE AND WELL NO. Corp. 14-24  
Natural Gas

CORES EXAMINED BY L. D. Holcomb  
(SIDEWALL)

NO.	F# of At	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS	
							OIL-GAS	CORE OR DITC
16	4563		1 1/4"	Shale, dark gray with brownish cast, rare light gray siltstone nests, calcareous, several large pyrite nests, micromicaceous, pyrite finely disseminated throughout, carbonaceous material finely disseminated throughout.	C			
9	4708		1/2"	Siltstone, dark gray to light gray, laminated, calcareous, very finely sandy nests scattered throughout, common carbonaceous material.	C			
8	4712		Fragments	Siltstone, very dark gray, very calcareous, approaching limestone, badly fractured and mud-shot.	C			
14	5024		1"	Shale, dark gray, with rather common light gray calcareous siltstone to very fine sandstone stringers, calcareous, rather rare Biotite, rather rare very finely disseminated carbonaceous material, rare microfossils (?).	1			
7	5034		1/2"	Shale, dark gray, calcareous, rather rare finely disseminated carbonaceous material, rather rare finely disseminated pyrite, microfossils (?), somewhat fragmented and mud-shot.	C			
12	5146		3/4"	Shale, dark gray, calcareous, scattered small nests and rare finely disseminated crystals of pyrite, rare Biotite, rather common microfossils.	C			
11	5152		1"	Shale, as above.	C			
10	5159		3/4"	Shale, as above, fragmented and mud-shot.	C			
6	5168		Fragments	Sandstone, white to very light gray, quartzitic; grains, fine, angular to subangular, calcareous matrix, rather rare vari-colored minerals, rare Pyrite, rather rare carbonaceous material, faint pinpoint fluorescence, fragmented.	S			
7	5250		3/4"	Siltstone, medium gray with greenish cast, very finely sandy, calcareous, rare thin laminae carbonaceous material, abundant Glauconite, rare Pyrite.	1			
?	5293		Fragments	Sandstone, light gray and silts, dark gray, too badly fragmented and mud-shot for description, fair pinpoint fluorescence in mud.	C&S			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%), 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%), 2-CLAY OR SHALE AND SAND (SAND 25-60%), 3-SAND WITH SHALE STREAKS (SAND 60-90%), S-SAND (90-100%).  
NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

SHELL OIL COMPANY

AREA OR FIELD East Durham

WEEK ENDING December 5, 1958

CORE RECORD

COMPANY Shell Oil Company

CORE FROM 5172 TO 5222

LEASE AND WELL NO. 13-21

CORES EXAMINED BY R. H. Price

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY, DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	INDICATIONS OIL - GAS	CORE OR DITCI
5	5172	5177	5%	Sandstone, white to fine grained, quartz, clean, slightly calcareous, slightly micaceous, no fluorescence, no odor on fresh surface.	S			
6	5177	5220	3%	Sandstone, as above, but highly permeated with high gravity oil, high fluorescence on fresh surface that disappears rapidly, gasoline or kerosene odor.	S			
7	5180	5187	7%	Sandstone, as above, but worm pored and only partially limonitized.	S			
8	5187	5204	10%	Sandstone, white to light grey, fine grained, appears to have weathered thin interbeds of shaly laminae, core tastes salty at surface and spottily salty on fresh surface.	S			
9	5204	5210	6%	Sandstone, medium to light grey, very fine, very clean but with very thin shale, black partings scattered.	S			
10	5210	5212	2%	Sandstone, as above, and black shale 50-50% interbedded.	S			
11	5212	5220	8%	Shale, black, very sandy in part, very fine grained with occasional very fine grained sandstone interbeds.	S			
12	5220	5222	2%	Sandstone, grey, very fine and shale, black interbedded in very thin beds and highly mottled - reworked, probably by worms - very calcareous.	S			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%), 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%), 2-CLAY OR SHALE AND SAND (SAND 25-60%), 3-SAND WITH SHALE STREAKS (SAND 60-90%), S-SAND (90-100%).  
 NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.

WEEK ENDING 13 December 1958

SHELL OIL COMPANY

AREA OR FIELD East Burnham

CORE RECORD  
(SIDEWALL)

CORE FROM 4187 TO 5415

COMPANY Shell Oil Company

LEASE AND WELL NO. 14-24  
Natural Gas Corp.

CORES EXAMINED BY L. D. Holcomb

NO.	FAP/At	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE INDICATIONS	
							OIL-GAS	CORE OR DITC
23	4187		3/4"	Siltstone, light to medium gray, laminated shale stringers with abundant carbonaceous material, calcareous, possible rare phosphatic material, abundant microfossils, somewhat mud-shot.	C			
22	4212		1"	Siltstone, medium to dark gray, rather common light gray thinly laminated very fine sand streaks, calcareous, rare mica, finely disseminated carbonaceous flecks throughout, possible microfossils (?).	C			
12	4235		1"	Shale, dark gray, rare thin calcite veins with finely disseminated pyrite, calcareous, rare carbonaceous material, rather common microfossils.	C			
21	4255		1 1/2"	Shale, dark gray, calcareous, common finely disseminated carbonaceous material throughout, possible microfossils (?), broken and mud-shot.	C			
20	4283		1"	Shale, dark gray with brownish cast, laminated, rather common thin calcite veins with finely disseminated pyrite, rare carbonaceous material, possible microfossils (?).	C			
19	4300		1 1/4"	Shale, as above, somewhat broken and mud-shot.	C			
11	4333		3/4"	Shale, as above, fragmented and mud-shot.	C			
18	4348		1"	Shale, dark gray with brownish cast, laminated, rather rare thin calcite veins with finely disseminated pyrite, rare carbonaceous material, microfossils.	C			
17	4359		1"	Shale, dark gray with brownish cast, with rather common light gray calcareous siltstone to very fine sandstone stringers, occasional scattered small siltstone to very fine sandstone nests, rather rare carbonaceous material, possible microfossils (?), possible rare dead oil staining in stringers.	1			
10	4514		1 1/2"	Siltstone, medium gray, rather common light gray very fine sand nests, mottled appearance, rare Glauconite (?), rather common carbonaceous material, rather rare mica (Muscovite), fragmented and mud-shot.	C			

SYMBOLS: C-CLAY OR SHALE (SAND 0-5%), 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%), 2-CLAY OR SHALE AND SAND (SAND 25-60%), 3-SAND WITH SHALE STREAKS (SAND 60-90%), S-SAND (90-100%).  
NOTE: SHOW FLUID CONTENT AS IN STANDARD LEGEND.



SHELL OIL COMPANY

WEEK ENDING November 30, 1958

AREA OR FIELD East Burnham

CORE RECORD

CORE FROM 4383 TO 4435

COMPANY Shell Oil Company

CORES EXAMINED BY R. H. Price

LEASE AND WELL NO. Gas No. 1122

East Burnham

NO.	FROM	TO	RECOVERED	FORMATIONAL, STRUCTURAL AND PROBABLE PRODUCTIVITY DESCRIPTION OF CORE	SYMBOL	OBSERVED DIP	CORE	
							INDICATIONS OIL-GAS	CORE OR DITCI
1	4383	4386	3°	Sandstone, grey, glauconitic, cross-bedded, fine to medium grained, sub rounded, calcareous, occasional worm boring, scattered pinpoint yellow fluorescence, appears wet.	S			
	4386	4414	28°	Sandstone, as above, with cross bedding to 4396, black shale, highly irregular partings, scattered pinpoint yellow fluorescence throughout.	S			
	4414	4425	11°	Sandy siltstone, dark grey to black, calcareous, micaceous.	T			
	4425	4433	8°	Siltstone, dark grey to black, micaceous, carbonaceous, calcareous, with some fine grained sandstone.	C			

SYMBOLS - C-CLAY OR SHALE (SAND 0-5%); 1-CLAY OR SHALE WITH SAND STREAKS (SAND 5-25%); 2-CLAY OR SHALE AND SAND (SAND 25-60%); 3-SAND WITH SHALE STREAKS (SAND 60-90%); S-SAND (100-100%).  
 NOTE: SHOW FLUID CONTENT A IN STANDARD LEGEND.

DITCH SAMPLES

Examined by R. H. Price 150 to 1670'  
 \_\_\_\_\_ to \_\_\_\_\_

Well Wildcat  
 Field or Area Burnham 14-24  
 Not \_\_\_\_\_

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/LAGGED
150	230		<u>Shale</u> , gray green, greasy look, non calcareous, non silty.	
230	250		<u>Sandstone</u> , white to tan, fine grained well sorted, rounded, very calcareous.	
250	280		<u>Shale</u> , light gray, non calcareous, non silty.	
280	290		<u>Shale</u> , light gray, bentonitic.	
290	400		<u>Shale</u> , light gray, non calcareous, non silty, non bentonitic, becoming medium gray at 360' and dark gray at 370' and carbonaceous.	
400	420		<u>Shale</u> , light to medium gray, slightly bentonitic.	
420	470		<u>Sandstone</u> , light tan, medium to fine grained, some angular, calcareous, glauconitic.	
470	500		<u>Sandstone</u> , as above bentonitic.	
500	590		<u>Shale</u> , dark gray, carbonaceous silty.	
590	690		<u>Sandstone</u> , medium gray, very fine grained, bentonitic, calcareous, silty, becoming less bentonitic at 660'.	
690	740		<u>Coal</u>	
749	910		<u>Sandstone</u> , medium gray, fine grained, silty, <u>Pictured Cliffs at 740</u> , glauconitic, non calcareous. at 810' becoming medium grained XX porosity, loosely constructed.	
910	940		<u>Siltstone</u> , medium gray calcareous, <u>Lewis at 910'</u> , becoming argillaceous downward.	
940	1090		<u>Shale</u> , medium gray, slightly calcareous, silty.	
1090	1400		<u>Sandstone</u> , gray, fine grained, slightly silty, calcareous loosely constructed. <u>Cliff House at 1090'</u> ? Becoming more constructed at 1210'. Becoming more silty at 1240'. Poor samples from 1260 to 1400'.	
1400	1440		<u>Shale</u> , light gray green.	
1440	1470		<u>Sandstone</u> , gray fine grained, slightly silty, calcareous.	
1470	1570		<u>Shale</u> , dark gray, calcareous, slightly silty, carbonaceous.	
1570	1620		<u>Sandstone</u> , gray, fine grained, slightly calcareous.	
1620	1670		<u>Coal</u>	

DITCH SAMPLES

Examined by R. H. Price 1670 to 4433  
 \_\_\_\_\_ to \_\_\_\_\_

Well Wildcat  
 Field or Area Burham 14-21,  
 not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES / LAGGED
1670	1710		<u>Sandstone</u> , gray, fine grained, calcareous, slightly silty, carbonaceous.	
1710	1770		<u>Coal</u>	
1770	1880		<u>Shale</u> , dark gray, highly carbonaceous, slightly calcareous.	
1880	1970		<u>Sandstone</u> , light gray to white, fine grained, XX porosity to slightly calcareous, slightly carbonaceous at 1940' becoming very clean and unconsolidated	
1970	2010		<u>Shale</u> , light brown, slightly calcareous to slight carbonaceous.	
2010	2060		<u>Sandstone</u> , light gray, fine grained, slightly calcareous, clean, loosely constructed.	
2060	2200		<u>Shale</u> , light gray, silty, slightly calcareous.	
2200	2240		<u>Shale</u> , light gray, silty, slightly calcareous.	
2240	2420		<u>Sandstone</u> , brown, fine grained, silty, calcareous.	
2420	2450		<u>Siltstone</u> , gray to brown, non calcareous.	
2450	2500		<u>Sandstone</u> , fine to medium grained white sub angular calcareous, glauconitic.	
2500	2530		<u>Shale</u> , gray to green, silty, non calcareous.	
2530	2660		<u>Sandstone</u> , white, fine grained, sub angular, calcareous, glauconitic.	
2660	2970		<u>Shale</u> , light gray, silty, non calcareous	
2970	3000		<u>Sandstone</u> , white, fine to medium grained sub angular, calcareous, glauconitic.	
3000	3100		<u>Shale</u> , brown, carbonaceous, non calcareous.	
3100	3200		<u>Shale</u> , as above.	
3200	3370		<u>Sandstone</u> , light tan, fine to medium grained, rounded, slightly calcareous, <u>Point Lookout at 3200'.</u>	
3370	4110		<u>Shale</u> , medium gray, non calcareous, silty, <u>Mancos at 3370'.</u>	
4110	4130		<u>Sandstone</u> , light tan, fine to medium grained, angular glauconitic, micaceous.	
4130	4380		<u>Shale</u> , as above.	
4380	4433		Core #1	

DITCH SAMPLES

Examined by R. H. Price 4433 to 5436  
 \_\_\_\_\_ to \_\_\_\_\_

Well Wildcat  
 Field or Area Burnham 14-24  
 Not

FROM	TO	%	SHOWS UNDERLINED	SAMPLES/ LAGGED
4433	4540		<u>Sandstone</u> , light brown, calcareous, fine to medium grained well sorted, glauconitic, calcareous. <u>Yellow uniform fluorescence 4500 - 4540'.</u>	
4540	4700		<u>Shale</u> , dark gray, silty, non calcareous.	
4700	4730		<u>Sandstone</u> , dark brown, highly calcareous, fine grained, <u>Pale yellow fluorescence Sarastee @ 4700'.</u>	
4730	4790		<u>Shale</u> , dark brown, non calcareous.	
4790	5070		<u>Shale</u> , as above.	
5070	5160		<u>Shale</u> , as above, highly calcareous. <u>Greenhorn 5070'.</u>	
5160	5172		<u>Sandstone</u> , light gray, well cemented, coarse grained, non calcareous <u>Dakota @ 5161'.</u>	
5172	5222		Core #2	
5222	5250		<u>Shale</u> , dark gray, non calcareous.	
5250	5430		<u>Sandstone</u> , light gray, medium grained, well sorted, well cemented, slightly calcareous, glauconitic, round grained.	
5430			<u>Shale</u> , pale green, non calcareous. <u>Morrison 5430'.</u>	