COQUINA OIL CORPORATION
1100 Trinity Place
1801 Broadway Street
Denver, Colorado 80202
Telephone (303) 629-5101

August 24, 1982

Minerals Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84104

Attention: Ed Gayen

RE: Coalbed Canyon Prospect
Coalbed Canyon Fee #1
Township 35 South - Range 25 East
Section 15: NW/4
San Juan County, Utah

Gentlemen:

This letter will provide to whomever it may concern, evidence that Coquina has assigned operating rights and allowed Buckhorn Petroleum Company to operate the above captioned well. If you have any questions in this matter, please do not hesitate to call.

Sincerely,

James P. Wason
District Land Manager

cc: Barbara Bigot
Buckhorn Petroleum Company

JPW:nlv

Form OGC-1a

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. Type of Well: Oil Well [X] Gas Well [ ] Other Single Zone [X] Multiple Zone [ ]

2. Name of Operator: BUCKHORN PETROLEUM CO.

3. Address of Operator: (1625 Broadway; Suite 1200) P. O. Box 5928 T.A.; Denver, CO 80217

4. Location of Well (Report location clearly and in accordance with any State requirements.*)
At surface: SE NW 15-35S-25E (1980' FNL & 1980' FWL) San Juan County, Utah
At proposed prod. zone: Approx. Same

5. Lease Designation and Serial No.: Fee

6. If Indian, Allottee or Tribe Name: ---

7. Unit Agreement Name: ---

8. Farm or Lease Name: COALBED CANYON

9. Well No.: 6-15

10. Field and Pool, or Wildcat: Wildcat/Desert Creek

11. Sec., T., R., M., or Blk. and Survey or Area: SE NW Sec. 15-T35S-R25E

12. County or Parrish: San Juan 13. State: UTAH

14. Distance in miles and direction from nearest town or post office*: Approx. 17 miles southeast of Dove Creek, Colorado

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any): 1980'

16. No. of acres in lease: 440

17. No. of acres assigned to this well: 160

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.: N/A

19. Proposed depth: 5870' GR

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 6739' GL; est. 6752' KB

22. Approx. date work will start*: September 20, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12¼"	8-5/8"	24#	2000' KB	800 sx (circ)
7-7/8"	5½"	14# & 15.5#	5870' KB (TD)	400 sx

Buckhorn Petroleum Co. proposes to drill an oil well to test the Desert Creek fm at approximately 5710' as outlined above and on the attached prognosis.

This location was previously approved for drilling by Black Hawk Resources Corp dba BHRC, Inc. on 2/9/82, API #43-037-30764.

At this time we anticipate using Brinkerhoff-Signal Rig 79. A copy of the equipment inventory including BOPs for this rig is attached.

Buckhorn's representative on location will be Ken Hayes.

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: Rodney D. Smith Title: Petroleum Engineer Date: August 24, 1982

(This space for Federal or State office use)

Permit No. ..... Approval Date .....

Approved by ..... Title ..... Date .....

Conditions of approval, if any:

*See Instructions On Reverse Side

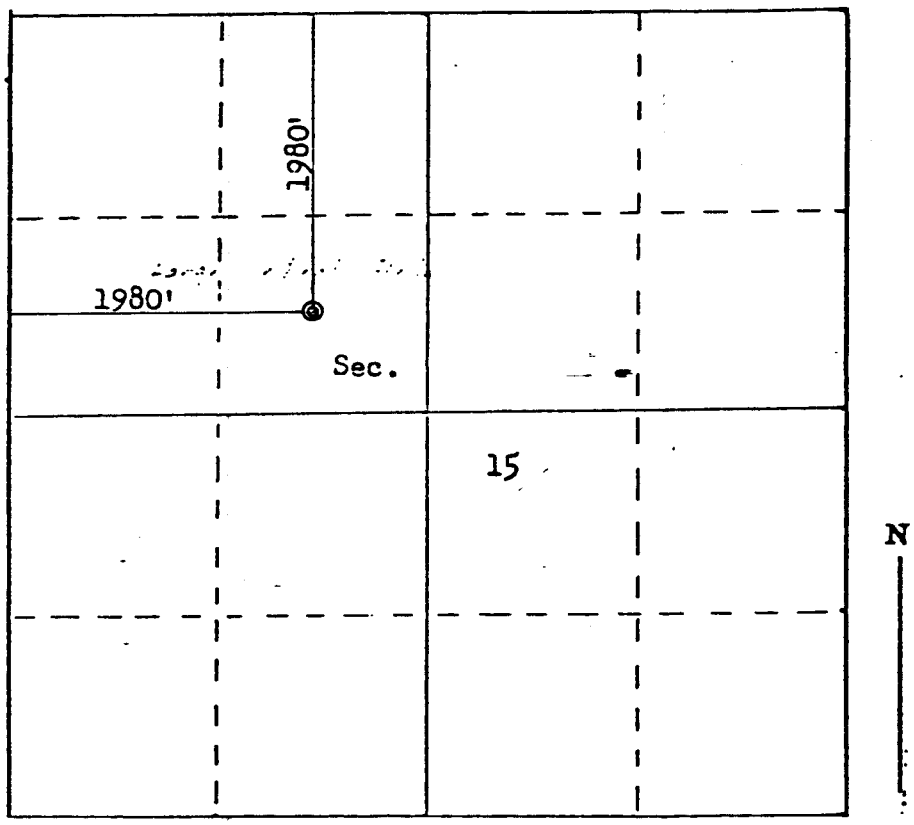
COMPANY BHRC, INCORPORATED

LEASE COALBED CANYON WELL NO. 1-15

SEC. 15, T 35S, R 25E
San Juan County, Utah

LOCATION 1980'FNL 1980'FWL

ELEVATION 6739 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SEAL: Registered Land Surveyor.

SURVEYED December 4, 19 81

FARMINGTON, N. M.

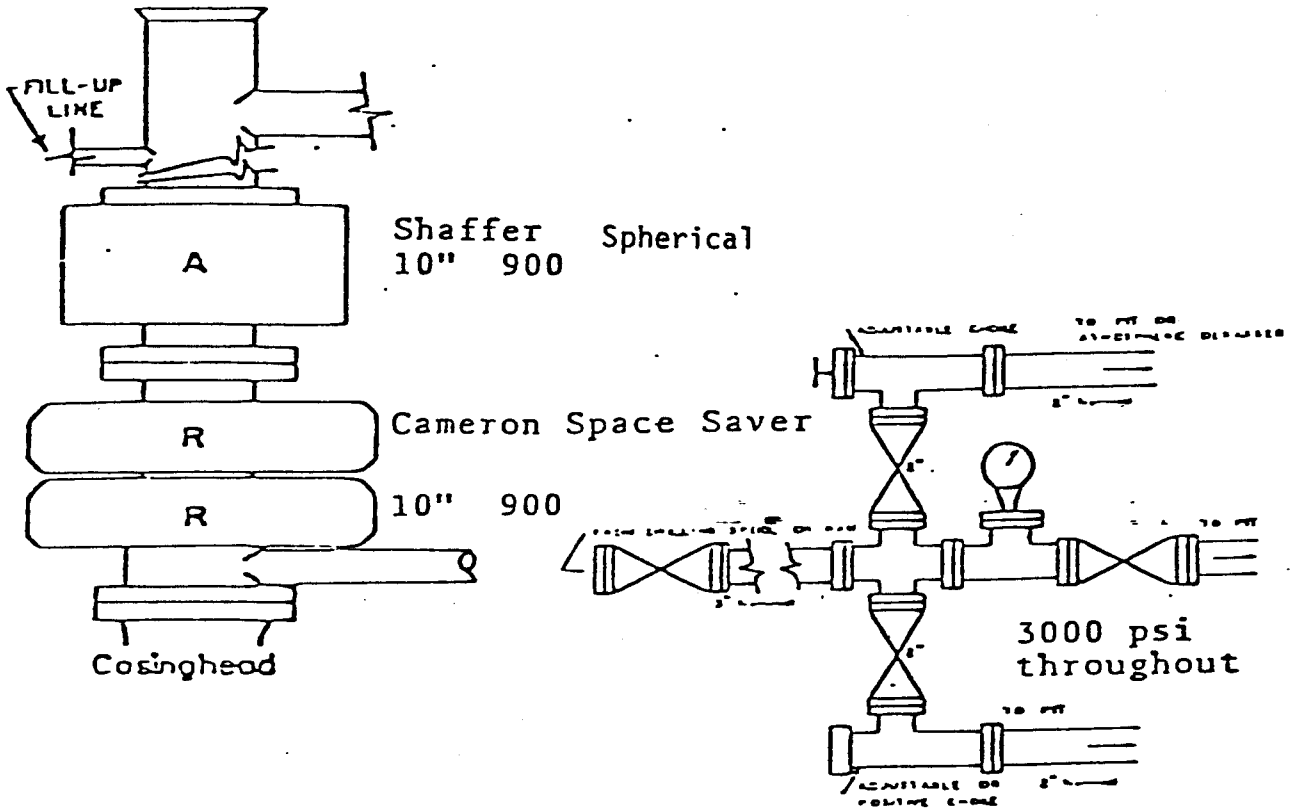


FIGURE NO. 1
BOP DIAGRAM

Brinkerhoff Signal
A Petrolane Company
3400 Anaconda Tower, Denver, Colorado 80202

RATED DEPTH CAPACITY 9,000 FEET (4½")

DRAWWORKS:	National 370 rated at 550 HP with 2-Engine Compound Parmac 22 SR Hydromatic Brake 1 1/8" Drilling Line
RIG POWER:	2 Caterpillar D-3408 PCTA Engines at 400 HP each with C-195-80-FH Torque Converters
DERRICK & SUBSTRUCTURE:	127' Dreco 510,000# GNC rated for 340,000# Hook Load with 8 Lines. Dreco 13' Substructure (one piece)
MUD PUMPS:	Gardner-Denver PZ7 HP Triplex Pump powered by Caterpillar D-379-TA Engine
MUD SYSTEM:	1 Steel Tank (550 BBLS. Capacity) Low Pressure Mud Mixing System Baroid Double Screen Shale Shaker Baroid Mud Cleaner Sidewinder Mud Mixer
BOP EQUIPMENT:	10" 3000# WP Shaffer Double Gate Preventer National 3" 3000# WP Choke Manifold Kelly Cock (Upper) Koomey 40 Gallon Accumulator
WATER TANK:	450 BBLS. Capacity
LIGHT PLANT:	210 KW Generator powered by Caterpillar 3406 Engine 260 KW Generator powered by Caterpillar 3406 Engine
TRAVELING EQUIPMENT:	McKissick - Wilson 150 Ton Block-Hook Combination Gray Type "F" 300 Ton Swivel
ROTARY EQUIPMENT:	17½" National C-175 Rotary Table Type "B" Tongs 4" Square Kelly
DRILL STRING:	4½" 16.60# Grade "E" Drill Pipe Drill Collars as required
OTHER:	Rotary Torque Gauge Automatic Driller Crown-O-Matic Air Hoist Recorder Independent Wire Line Unit Toolpusher Trailer House

BUCKHORN PETROLEUM CO.

WELL PROGNOSIS

Prospect/Field Coalbed Canyon Lease
Well Name Coalbed Canyon #6-15
State Utah County San Juan
Location SENW Sec. 15 Twp 35S Rge 25E
Footage 1980' FNL & 1980' FWL
Elevation Gr 6739' KB Est. 6752'
Proposed Total Depth 5870'

(X) Wildcat ( ) Development

GEOLOGICAL REQUIREMENTS

SAMPLE PROGRAM

10'* samples surf csg to TD
samples to
Samples to Amstrat: Yes X No
Samples to other partners
Coquina Oil Corporation

Deviation Limit 5° Not to exceed 1° /1000'
*If drilling fast, 30' samples OK to 4000'

LOGGING PROGRAM

IES to
Dual Induction-SFL surf csg to TD
BHC Acoustic surf csg to TD
FDC/CNL surf csg to TD
Laterolog 3 to
Microlaterolog to
SNP to
Gamma Ray Neutron to
Dipmeter to

Check shot survey

CORING PROGRAM Desert Creek (approx 150')

DST PROGRAM Honaker Trail (if shows), Ismay (if shows), Desert Creek

Mud Logger Required: Yes X No
Type Two man
Depth range: From surf csg to TD

Geologist: From 4000' to TD

FORMATION TOPS	DEPTH
Burro Canyon	150'
Morrison	240'
Salt Wash	560'
Summerville	840'
Entrada	915'
Carmel	940'
Kayenta	1195'
Wingate	1755'
Chinle	1980'
Shinarump	2645'
Cutler	2720'
Hermosa	4450'
Honaker Trail	4450'
Ismay	5500'
Desert Creek	5710'
Akah	5860'
Salt	5870'

Coowners and Participants
Buckhorn Petroleum Company 50%
Coquina Oil Corporation 50%

DRILLING PROGRAM

HOLE SIZE 12¼" 0-2000'(±) 7-7/8" 2000'-TD

CASING PROGRAM

	SIZE	WEIGHT	DEPTH	CEMENT	
Surf. to 2000'	8-5/8"	24# K-55 ST&C	to ±2000'KB	800	Sx (circ)
Surf. to 5870'(TD)	5½"	14 & 15.5# K-55 LT&C	to ±5870'KB	400	Sx
to					Sx

MUD PROGRAM

TYPE	DEPTH FROM	TO	CHARACTERISTICS WT.	VIS.	%OIL	W.L.
Fresh wtr/native mud	Surf -	2000'	8.6-8.8	35-40	--	N/C
Low solids non-dispersed	2000' -	TD	8.6-8.8	30-35	--	10-15

APPROVED: Land Production RDSmith
Geological S. Cluff Management

** FILE NOTATIONS **

DATE: 8-25-82

OPERATOR: Buckhorn Petroleum

WELL NO: Coalbed Canyon 6-15

Location: Sec. SE NW 15 T. T35S R. 25E County: San Juan

File Prepared: ✓ Entered on N.I.D: ✓

Card Indexed: ✓ Completion Sheet: ✓

API Number 43-037-30806

CHECKED BY:

Petroleum Engineer:

Director:

Administrative Aide:

APPROVAL LETTER: Fee Blanket 50,000 submitted

Bond Required: ☐ Survey Plat Required: ☐

Order No. O.K. Rule C-3 ✓

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site ☐

Lease Designation ☐ Plotted on Map ☐

Approval Letter Written ☐

Hot Line ✓ P.I. ✓

August 25, 1982

Buckhorn Petroleum Company
P. O. Box 5928 T.A.
Denver, Colorado 80217

RE: Well No. Coalbed Canyon 6-15
SENW Sec. 15, T. 35S, R. 25E
San Juan,County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to gas/oil well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Engineer		CLEON B. FEIGHT - Director
Office: 533-5771	OR	Office: 533-5771
Home: 571-6068		Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (acquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30806.

Sincerely,

Norman C. Stout
Administrative Assistant

NCS/as
Enclosure

1 M

Buckhorn - #6-15 Coalbed Canyon (Contractor - LLL Drlg Rig 2) Spud 9-28-82
SE SW Sec. 15-T35S-R25E, San Juan County, Utah PTD 5870' Desert Creek
(Buckhorn - 66.666%WI BCP, 50.000%WI ACP) Coalbed Canyon Prosp. Coquina F.O.
AFE BEW 2202

10-2-82 1865', drlg, made 337'. 24 hr breakdown: ½ hr service rig; ½ hr survey: 1½° @ 1610' & 1° @ 1730'; 2-3/4 hrs lost circ @ 1528' (150 BBL mud) & @ 1669' (200 BBL mud); 20¼ hrs drlg. MW 8.6; vis 40. Bit #1: 12¼", STC, F3 (16-16-18). In @ 50', made 1815' in 80 hrs @ 22.6'/hr. SN CP 5785'. Bit wt: 45M#, RPM 60-70, pump #1: 500 psi pump pr, SPM 102, GPM 252; pump #2: 1000 psi pump pr, SPM 96, GPM 504.
Daily Cost: $6,343 Cum Cost: $100,928

10-3-82 2005', WOC, made 140'. 24 hr breakdown: 6-3/4 hrs drlg; ¼ hr service rig; 1½ hrs circ; ¼ hr survey: ½° @ 1900'; 1¼ hrs trip, strap DP, no correction; 4 hrs TOOH, LD BHA; 4 hrs RU & run 9-5/8" surf csg; 1 hr circ csg; 1 hr cmt csg; 4 hrs WOC. MW 8.8; vis 46. Bit #1: 12¼", STC, F3 (16-16-18). In @ 50', out @ 2005', made 1955' in 85 hrs @ 23'/hr. SN CP 5785.
Casing Detail: 49 jts, 9-5/8", 36#, ST&C, 8-rd (Franklin Supply) csg equipped w/Halliburton GS DFFC, 5 centralizers, & 2 cmt baskets (@1300' & 150') w/overall length of 2007', set @ 2004' KB.
Cement Detail: Lead slurry - 375 sx HOWCO Lite containing 3% $CaCl_2$, 10# gilsonite/sk & ¼# Flocele/sk. Tail end - 300 sx Class B cmt containing 2% $CaCl_2$ & ¼# Flocele/sk. Displaced w/150 BBL water. Lost circ w/50 BBL displacement in. PD @ 0200 10-3-82.
Top Outside Job: #1 - 50 sx Class B cmt w/2% $CaCl_2$ - no returns.
#2 - 50 sx Class B cmt w/2% $CaCl_2$ - circ'd 5 sx.
Daily Cost: $7,065 Cum Cost: $107,993

10-4-82 2005', drlg cmt, made no footage. 24 hr breakdown: 10 hrs WOC; 6¼ hrs cut off cond. pipe, csg & weld head on; 2½ hrs NU; ½ hr pr test BOP to 1000 psi; 2¼ hrs TIH' 2½ hrs drill cmt, plug & shoe. Top of cmt - 1940'. Bit #2: 8-3/4", STC, F2 (11-11-11). In @ 2005'. Bit wt: 25#M, RPM 50, pump #1: 1000 psi pump pr, SPM 100. GPM 126.
Daily Cost: $30,440 Cum Cost: $138,433

10-5-82 2806', drlg, made 801'. 24 hr breakdown: ½ hr drlg cmt; 2½ hrs lost circ @ 2149' (150 BBL mud); 1 hr rig serv., survey: ½° @ 2213', 1° @ 2797'; 20 hrs drlg. Drlg w/wtr, no mud properties. Bit #2: 8-3/4", STC, F2 (11-12-0). In @ 2005, made 801' in 20 hrs @ 40'/hr. Bit wt: 45M#, RPM 60, 1400 psi pump pr, SPM 100; GPM 290. BHA - bit, bit sub, 6 - 7" DC, 22 - 6" DC. Length - 871'.
Daily Cost: $48,782 Cum Cost: $195,036

Corrected Costs:					
9-30-82	Daily Cost:	$12,302	Cum Cost:	$82,543
10-01-82	Daily Cost:	$10,427	Cum Cost:	$92,970
10-02-82	" "	$15,055	" "	$108,025
10-03-82	" "	$ 7,065	" "	$115,090
10-04-82	" "	$31,164	" "	$146,254

10-06-82 3615', drlg, made 809'. 24 hr breakdown: 1 hr survey: 1¼° @ 3260'; 1 hr rig service; 22 hrs drlg. MW 8.6; vis 29. Bit #2: 8-3/4", STC, F2 (11-12-0). In @ 2005', made 1610' in 42 hrs @ 38.3'/hr. SN CJ 9292. Bit wt: 50M#, RPM 55, 1600 psi pump pr, SPM 100, GPM 290. BHA - same, 871'.
Daily Cost: $13,535 Cum Cost: $208,571

10-7-82 3884', bldg mud volume, made 269'. 24 hr breakdown: 12¼ hrs drlg; 1 hr service rig & change oil in light plant; ½ hr survey: 1¼° @ 3676'; 1 hr circ samples @ 3841'; 6½ hrs trip for bit #3, strap pipe, made 3' correction from 3881'-3884'; 2½ hrs mix mud & LCM pill, lost about 200 BBL of mud. MW 8.7; vis 29. Bit #2: 8-3/4", STC, F2 (11-12-0). In @ 2005', out @ 3884', made 1879' in 54½ hrs @ 34'/hr. SN CJ 9292. Bit #3: 8-3/4", STC, F3 (12-12-0). In @ 3884', no footage. Bit wt: 50M#, RPM 55-60, 1600 psi pump pr, SPM 100; GPM 290. DB: 3811'-3830', 4"-½"/ft. 94 unit gas kick. Methane: 300 units; Ethane: 7.14 units; Propane: 31.58 units. BHA - same, 871'.
Daily Cost: $18,888 Cum Cost: $227,459

10-8-82 4274', drlg, made 390'. 24 hr breakdown: ½ hr rig service; ½ hr survey: ½° @ 4100'; 2 hrs lost circ @ 4085', pulled 5 stands of pipe, mixed 2 - 75 BBL pills, got circ back, lost 300 BBL mud; 21 hrs drlg. MW 8.8; vis 37; WL 10.4; pH 9; FC 2/32; Cl 500 ppm; Ca 60 ppm; sand-tr; PV 12; YP 5; gel 1/3; solids 4.5%; LCM 10%. Bit #3: 8-3/4", STC, F3 (12-12-0). In @ 3884', made 390' in 21 hrs @ 18.5'/hr. SN CK 7153. Bit wt: 50M#, RPM 60, 1600 psi pump pr, SPM 100, GPM 290. BHA - same, 871'.
Daily Cost: $13,827 Cum Cost: $241,286

RECEIVED
OCT 12 1982
DIVISION OF
OIL, GAS & MINING

Buckhorn - #6-15 Coalbed Canyon (Contractor - LLL Drlg Rig 2) Spud 9-28-82
SE SW Sec. 15-T35S-R25E, San Juan County, Utah PTD 5870' Desert Creek
(Buckhorn - 66.666%WI BCP, 50%WI ACP) Coalbed Canyon Prosp. Coquina F.O.
AFE BEW 2202

10-9-82 4619', drlg, made 345'. 24 hr breakdown: 1 hr rig service & survey: ½° @ 4100'; 23 hrs drlg. MW 9.1; vis 36; WL 10.6; pH 9.5; FC 2/32; Cl 900 ppm; Ca 20 ppm; sand-¼%; PV 14; YP 4; gel 1/3; solids 5%; LCM 10%; chromates 800 ppm. Bit #3: 8-3/4", STC, F3 (12-12-0). In @ 3884', made 735' in 43 hrs @ 17.9'/hr. SN CK 7153. Bit wt: 50M#, RPM 60, 1400 psi pump pr, SPM 100; GPM 290. BHA - same, 871'.
Daily Cost: $9,718 Cum Cost: $251,004

10-10-82 4963', drlg, made 344'. 24 hr breakdown: 1½ hrs rig service & survey: 3/4° @ 4677'; 22½ hrs drlg. MW 9; vis 38; WL 10.2; pH 9.5; FC 2/32; Cl 800 ppm; Ca 40 ppm; sand-¼%; PV 14; YP 4; gel 2/5; solids 5%; LCM 12%; chromates 400 ppm. Bit #3: 8-3/4", STC; F3 (12-12-0). In @ 3884', made 1079' in 65½ hrs @ 16.4'/hr. SN CK 7153. Bit wt: 50M#, RPM 60, 1400 psi pump pr, SPM 100, GPM 290. BHA - same, 871'.
Daily Cost: $9,649 Cum Cost: $260,653

10-11-82 5217', trip for bit #4, made 254'. 24 hr breakdown: 21 hrs drlg; 1 hr rig service; 2 hrs survey & trip for bit #4. MW 9.1; vis 37; WL 10; pH 9.5; FC 2/32; Cl 700 ppm; Ca 20 ppm; sand-¼%; PV 14; YP 3; gel 1/3; solids 5%; LCM 10%; chromates 700 ppm. Bit #3: 8-3/4", STC, F3 (12-12-0). In @ 3884', out @ 5217', made 1333' in 86½ hrs @ 15.4'/hr. SN CK 7153. Bit wt: 50M#, RPM 60, 1400 psi pump pr, SPM 100, GPM 290. BHA - same, 871'.
Daily Cost: $8,137 Cum Cost: $268,790

10-12-82 5440', drlg, made 223'. 24 hr breakdown: 2 hrs trip for bit #4; 1 hr rig service; 3½ hrs finish trip; ½ hr circ samples @ 5364'; 17 hrs drlg. MW 9; vis 38; WL 9.8; pH 9.5; FC 2/32; Cl 800 ppm; Ca 20 ppm; sand-¼%; PV 16; YP 5; gel 2/5; solids 5%; LCM 10%; chromates 600 ppm. Bit #4: 8-3/4", STC, F3 (12-12-0). In @ 5217', made 223' in 17 hrs @ 13.1'/hr. SN CP 1559. Bit wt: 45M, RPM 60, 1400 psi pump pr, SPM 100, GPM 290. BHA - same, 871'. Will be coring 10-13-82 AM.
Daily Cost: $18,230 Cum Cost: $287,020

10-13-82 5686', drlg, made 246'. 24 hr breakdown: 1 hr rig service; 1½ hrs circ samples @ 5682'; 21½ hrs drlg. MW 9; vis 40; WL 10.8; pH 10.5; FC 2/32; Cl 700 ppm; Ca 40 ppm; sand-¼%; PV 16; YP 8; gel 3/10; solids 5%; LCM 8%; chromates 600 ppm. Bit #4: 8-3/4", STC, F3 (12-12-0). In @ 5217', made 469' in 38½ hrs @ 12'/hr. Bit wt: 50M#, RPM 60, 1400 psi pump pr, SPM 100, GPM 290. BHA - same, 871'. Sample Tops:

Upper Ismay	5498'
Lower Ismay	5636'
Gothic Shale	5676'

Daily Cost: $8,252 Cum Cost: $295,272

10-14-82 5788', coring - #1, starting @ 5762'; drld 102' in 5½ hrs; ½ hr rig service; 1½ hrs circ samples @ 5762' & circ for core barrel; 4½ hrs survey & TOOH; 2½ hrs PU core barrel & jars; 3½ hrs TIH w/core barrel; ½ hr circ & drop ball; 5½ hrs coring. Survey: 2° @ 5762'. MW 9; vis 39; WL 10; pH 9.5; FC 2/32; Cl 700 ppm; Ca 120 ppm; sand-¼%; PV 14; YP 4; gel 1/4; solids 5%; LCM 10%; chromates 500 ppm. Bit #4: 8-3/4", STC, F3 (12-12-0). In @ 5217', out @ 5762', made 545' in 44 hrs @ 12.3'/hr. SN CP 1559. Bit #5: 8-3/4", American Coldset Corp, Diamond Corehead. In @ 5762, made 26' in 5½ hrs @ 4.7'/hr. SN N/A. Bit wt: 20M#, RPM 70, 900 psi pump pr, SPM 80, GPM 210. BHA - core barrel, jars, bit sub, 22 - 6" DC. Length - 760'.
Sample Top: Desert Creek - 5708'-5716'
Daily Cost: $8,411 Cum Cost: $303,683

10-15-82 5841' TD, TO w/core barrel #2, made 53'. 24 hr breakdown: 8 hrs cutting core #1; 3½ hrs TO w/core barrel; 2 hrs LD core & service barrel; 1 hr cut drlg line; ½ hr service rig; 3½ hrs TI w/core barrel #2; ½ hr circ & drop ball; 3 hrs cutting core; 2 hrs TO w/core barrel. MW 8.9; vis 38; WL 12.2; pH 10; FC 2/32; Cl 1M ppm; Ca 120 ppm; sand-tr; PV 14; YP 4; gel 1/2; solids 5%; LCM 6%; chromates 400 ppm. Bit #5: 8-3/4", ACC, Diamond Corehead. In @ 5762', out @ 5821', made 59' in 13½ hrs @ 4.4'/hr. SN N/A. Bit RR#5: in @ 5821', out @ 5841', made 20' in 3 hrs @ 6.6'/hr. (Total of 79' in 16½ hrs @ 4.8'/hr.) BHA - same, 760'. Core #1: 5762'-5822', 60', rec'd 60': L.S., anhydrites & shales, no shows. Core #2: 5822'-5841', description will be on Monday's report (last 3' in salt). Schlumberger on way out to log.
Daily Cost: $7,358 Cum Cost: $311,041

OCT 18 1982
DIVISION OF
OIL, GAS & MINING

Buckhorn - #6-15 Coalbed Canyon (Contractor - LLL Drlg Rig) Spud 9-28-82
SE SW Sec. 15-T25E-R25E, San Juan County, Utah PTD 5870' Desert Creek
(Buckhorn - 66.666%WI BCP, 50%WI ACP) Coalbed Canyon Prosp. Coquina F.O.
AFE BEW 2202

10-16-82 5842', TD, LDDC. 24 hr breakdown: 2 hrs TOOH w/core barrel #2; 1 hr LD core & core barrel; 6 hrs RU Schlumberger truck, tried to log, couldn't get logs to run; 9 hrs logging: DIL/SFL, Sonic w/GR & caliper, & Neutron Density; 6 hrs run DC in hole, PU 22 jts DP, stand DP in rig, LDDC. Core #2: 5822'-5841', 19', rec'd 15'.
Daily Cost: $35,740 Cum Cost: $346,781

10-17-82 5842' TD. Plugs set @ 5642'-5842', 70 sx Top of surf csg, 20 sx
3950'-4050', 35 sx
1950'-2050', 35 sx
Cmt'd w/50:50 poz, 2% gel. Rig released @ 11:30 PM, 10-16-82.
Daily Cost: $8,428 Cum Cost: $355,209

FINAL REPORT - WELL P & A'd

RECEIVED
OCT 25 1982
DIVISION OF
OIL, GAS & MINING

BUCKHORN PETROLEUM CO.
6-15 COALBED CANYON
SE NW SEC. 15, T35S-R25E
SAN JUAN COUNTY, UTAH

RECEIVED
OCT 28 1982
DIVISION OF
OIL, GAS & MINING

SMITH MUD LOGGING
352 2275 ROAD
DELTA, COLORADO 81416
Ph: (303) 874-7451

BUCKHORN PETROLEUM COMPANY
6-15 COALBED CANYON
SE NW SEC. 15, T35S-R25E
SAN JUAN COUNTY, UTAH

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6. Show Sheet #3: 5740-5750	6
7. Show Sheet #4: 5800-5808	7
7. Core #1 Description	8
8. Core #2 Description	9

(1) COPY, FINAL MUD LOG (5"=100')
(1) COPY, FINAL MUD LOG (2.5"=100')

DRILLING CONTRACTOR:	TRIPLE L DRILLING FARMINGTON, NEW MEXICO
COMPANY MAN:	MR. G. BENNETT
PUSHER:	MR. BILL DAY
GEO-TECHNOLOGISTS:	MR. JERRY DAVIS MR. MIKE SOSINSKI SMITH MUD LOGGING DELTA, COLORADO
DRILLING FLUID:	MR. JIM MORRIS AMERICAN MUD DENVER, COLORADO
CORING:	CORE #1 MR. JAMES ABEL ACC GRAND JUNCTION, COLORADO
WIRE LINE LOGS:	MR. LINK SCHLUMBERGER FARMINGTON, NEW MEXICO
GEOLOGIST:	MRS. SUE CLUFF BUCKHORN PETROLEUM COMPANY DENVER, COLORADO MR. DICK ROSS GEOLOGICAL CONSULTANT

BUCKHORN PETROLEUM COMPANY
6-15 COALBED CANYON
SE NW SEC. 15, T35E-R25E
SAN JUAN COUNTY, UTAH

SUMMARY OF DAILY ACTIVITY

DATE	ACTIVITY	MIDNITE DEPTH	24 HOUR FOOTAGE
10-02-82	Set surface casing and cement	2005	-
10-03-82	Cement, test BOP	2005	-
10-04-82	Drill out cement, drill formation	2005	533
10-05-82	Drilling	2538	824
10-06-82	Drilling	3362	519
10-07-82	Trip for bit #3	3881	294
10-08-82	Drilling, lost circulation	4175	364
10-09-82	Drilling	4539	341
10-10-82	Drilling	4880	293
10-11-82	Drilling, trip for bit #4	5173	199
10-12-82	Drilling	5372	259
10-13-82	Drilling	5631	131
10-14-82	TIH for core #1	5762	60
10-15-82	TIH for core #2	5822	19
10-16-82	Released. TD	5841	

BUCKHORN PETROLEUM COMPANY
6-15 COALBED CANYON
SE NW SEC. 15, T35S-R25E
SAN JUAN COUNTY, UTAH

BIT RECORD

BIT#	MAKE	SIZE	TYPE	DEPTH OUT	FOOTAGE USED	HOURS
1	STC	12 1/4	F-3	2005	1955	85
2	STC	8 3/4	F2	3881	1876	54 1/2
3	STC	8 3/4	F-3	5217	1333	86 1/2
4	STC	8 3/4	F-3	5761	505	44
5	ACC	8 3/4	EH STAR	5821	60	13 1/4
6	ACC	8 3/4	EH STAR	5841	20	293

BUCKHORN PETROLEUM COMPANY

6-15 COALBED CANYON
SE NW SEC. 15, T35S-R25E
SAN JUAN COUNTY, UTAH

DEVIATION RECORD SHEET

DEPTH	DEVIATION(Deg)
145	1.00
318	1.00
520	0.25
780	1.00
996	1.25
1343	1.00
1610	1.50
1730	1.00
1900	0.50
2213	0.50
2797	1.00
3260	1.25
3767	1.25
4100	0.50
4606	0.75
4677	0.75
5177	0.75
5722	2.00

SMITH MUD LOGGING

DST & SHOW SHEET

SHOW # 1 INTERVAL: 3811 TO: 3830
COMPANY: BUCKHORN PETROLEUM COMPANY DATE: 10/06/82
WELL: 6-15 COALBED CANYON
FIELD: WILDCAT

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE	4min/ft	1/2min/ft	3-4min/ft
TOTAL GAS UNITS	2.00	93.65	4.00
METHANE	0.00	300.00	0.00
ETHANE	0.00	7.14	0.00
PROPANE	0.00	31.58	0.00
BUTANE (ISO)	0.00	0.00	0.00
BUTANE (NORM)	0.00	0.00	0.00
PENTANES	0.00	0.00	0.00

SAMPLE LITHOLOGY: 80% Sandstone, clear, grey, fine to medium grain, angular to subangular, friable, poorly cemented, argillacious. 20% Shale, red brown, maroon, grey, mica, calcareous, soft to firm, dead oil stain. Trace of Limestone, red, very silty.
SAMPLE FLUO-CUT: When dry, trace of yellow fluorescence, fair cut when crushed.

DST # INTERVAL TO DATE:

	TIME min.	PRESSURE (psi) top chart		bottom chart	
INITIAL HYDROSTATIC					
INITIAL OPEN		from	to	from	to
INITIAL SHUT-IN		to		to	
SECOND OPEN		from	to	from	to
SECOND SHUT-IN		to		to	
FINAL HYDROSTATIC					

BHT (°F.):
1ST FLOW:
2ND FLOW:
REMARKS :
DRILL PIPE RECOVERY:
SAMPLE CHAMBER REC.:

	WT. ppg	R/W	NITRATES ppm	CHLORIDES ppm	CHROMATES ppm
DRILL PIPE: top:	/	/ at....°F.	/	/	/
middle:	/	/ at....°F.	/	/	/
bottom:	/	/ at....°F.	/	/	/
SAMPLE CHMBR:	/	/ at....°F.	/	/	/
PIT MUD:	/	/ at....°F.	/	/	/

(GAUGED FLOW:)
GEO-TECHNOLOGIST: JERRY DAVIS

SMITH MUD LOGGING
DST & SHOW SHEET

SHOW # 2 INTERVAL: 5664 TO: 5676
COMPANY: BUCKHORN PETROLEUM COMPANY DATE: 10/13/82
WELL: 6-15 COALBED CANYON
FIELD: WILDCAT

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE	9min/ft	6min/ft	9-10min/ft
TOTAL GAS UNITS	20.0	68.0	25.0
METHANE	20.0	650.0	20.0
ETHANE	0.0	278.0	0.0
PROPANE	0.0	73.7	0.0
BUTANE (ISO)	0.0	28.6	0.0
BUTANE (NORM)	0.0	26.1	0.0
PENTANES	0.0	0.0	0.0

SAMPLE LITHOLOGY: Shale, black, dark grey, dolomitic. Limestone, light grey with white soft argillaceous.

SAMPLE FLUO-CUT:

DST # INTERVAL TO DATE:

	TIME min.	PRESSURE (psi) top chart		bottom chart	
INITIAL HYDROSTATIC					
INITIAL OPEN		from	to	from	to
INITIAL SHUT-IN		to		to	
SECOND OPEN		from	to	from	to
SECOND SHUT-IN		to		to	
FINAL HYDROSTATIC					

BHT (°F.):
1ST FLOW:
2ND FLOW:
REMARKS :
DRILL PIPE RECOVERY:
SAMPLE CHAMBER REC.:

	WT. ppg	R/W	NITRATES ppm	CHLORIDES ppm	CHROMATES ppm
DRILL PIPE: top:	/ /	at....°F./	/	/	/
middle:	/ /	at....°F./	/	/	/
bottom:	/ /	at....°F./	/	/	/
SAMPLE CHMBR:	/ /	at....°F./	/	/	/
PIT MUD:	/ /	at....°F./	/	/	/

(GAUGED FLOW:)

GEO-TECHNOLOGIST: MR. JERRY DAVIS

SMITH MUD LOGGING
DST & SHOW SHEET

SHOW # 3 INTERVAL: 5740 TO: 5750
COMPANY: BUCKHORN PETROLEUM COMPANY DATE: 10/13/82
WELL: 6-15 COALBED CANYON
FIELD: WILDCAT

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE	10min/ft	8min/ft	9min/ft
TOTAL GAS UNITS	20.0	85.0	10.0
METHANE	4.0	80.0	2.0
ETHANE	0.0	0.0	0.0
PROPANE	0.0	0.0	0.0
BUTANE (ISO)	0.0	0.0	0.0
BUTANE (NORM)	0.0	0.0	0.0
PENTANES	0.0	0.0	0.0

SAMPLE LITHOLOGY: No sample. See log.

SAMPLE FLUO-CUT:

DST # INTERVAL TO DATE:

	TIME min.	PRESSURE (psi) top chart		bottom chart	
INITIAL HYDROSTATIC					
INITIAL OPEN		from	to	from	to
INITIAL SHUT-IN		to		to	
SECOND OPEN		from	to	from	to
SECOND SHUT-IN		to		to	
FINAL HYDROSTATIC					

BHT (°F.):
1ST FLOW:
2ND FLOW:
REMARKS :
DRILL PIPE RECOVERY:
SAMPLE CHAMBER REC.:

	WT. ppg	R/W	NITRATES ppm	CHLORIDES ppm	CHROMATES ppm
DRILL PIPE: top:	/	/ at....°F.	/	/	/
middle:	/	/ at....°F.	/	/	/
bottom:	/	/ at....°F.	/	/	/
SAMPLE CHMBR:	/	/ at....°F.	/	/	/
PIT MUD:	/	/ at....°F.	/	/	/

(GAUGED FLOW:)

GEO-TECHNOLOGIST: MR. MIKE SOSINSKI

SMITH MUD LOGGING
DST & SHOW SHEET

SHOW # 4 INTERVAL: 5800 TO: 5808
COMPANY: BUCKHORN PETROLEUM COMPANY DATE: 10/14/82
WELL: 6-15 COALBED CANYON
FIELD: WILDCAT

	BEFORE SHOW	DURING SHOW	AFTER SHOW
DRILLING RATE	15min/ft	7min/ft	9min/ft
TOTAL GAS UNITS	5.0	40.0	7.0
METHANE	1.0	6.0	1.0
ETHANE	0.0	0.0	0.0
PROPANE	0.0	0.0	0.0
BUTANE (ISO)	0.0	0.0	0.0
BUTANE (NORM)	0.0	0.0	0.0
PENTANES	0.0	0.0	0.0

SAMPLE LITHOLOGY: See core #1.

SAMPLE FLUO-CUT:

DST # INTERVAL TO DATE:

	TIME min.	PRESSURE (psi) top chart		bottom chart	
INITIAL HYDROSTATIC					
INITIAL OPEN		from	to	from	to
INITIAL SHUT-IN		to		to	
SECOND OPEN		from	to	from	to
SECOND SHUT-IN		to		to	
FINAL HYDROSTATIC					

BHT (°F.):
1ST FLOW:
2ND FLOW:
REMARKS :
DRILL PIPE RECOVERY:
SAMPLE CHAMBER REC.:

	WT. ppg	R/W	NITRATES ppm	CHLORIDES ppm	CHROMATES ppm
DRILL PIPE: top:	/ /	at....°F. /	/	/	/
middle:	/ /	at....°F. /	/	/	/
bottom:	/ /	at....°F. /	/	/	/
SAMPLE CHMBR:	/ /	at....°F. /	/	/	/
PIT MUD:	/ /	at....°F. /	/	/	/

(GAUGED FLOW:)

GEO-TECHNOLOGIST: MR. JERRY DAVIS

BUCKHORN PETROLEUM COMPANY
6-15 COALBED CANYON
SE NW SEC. 15, T35S-R25E
SAN JUAN COUNTY, UTAH

CORE # 1 DESCRIPTION
INTERVAL CORED: 5762 TO 5821
RECOVERED 60 FEET

FROM	TO	
5762	5767	Limestone: grey brown, micaceous, crystalline, pyrite, dolomitic, compact, hard, tight.
5767	5770	Anhydrite: white grey, micro-crystalline.
5770	5774	Shale: black, micaceous, fissile, calcareous, poker chip, occasional thin seams of Anhydrite.
5774	5778	Limestone: as above, with thin Anhydrite seams, argillaceous.
5778	5780	Shale: black, calcareous, earthy fracture, poker chip.
5780	5782	Shale: grey brown, calcareous, seams of micaceous Anhydrite.
5782	5784	Limestone: grey brown, argillaceous, micaceous.
5784	5789	Shale: grey black, micaceous, calcareous, hard, almost a Limestone.
5789	5802.5	Shale: black, poker chip, fissile, calcareous, occasional carbonized plant fragments, black in 5790-91, shell fragments.
5802.5	5808	Limestone: medium to dark grey, micro-crystalline, compact, hard and tight.
5808	5809	Shale: silver grey, micaceous, fissile, calcareous.
5809	5813	Limestone: grey, micro-crystalline, to crypto-crystalline, pyritic.
5813	5822	Anhydrite: white grey, crystalline, grading to black Shale in bottom foot.

BUCKHORN PETROLEUM COMPANY
6-15 COALBED CANYON
SE NW SEC. 15, T35S-R25E
SAN JUAN COUNTY, UTAH

CORE # 2 DESCRIPTION

INTERVAL CORED: 5822 TO 5841

RECOVERED 15 FEET

FROM	TO	
5822	5826	Shale: black, poker chip, slightly calcareous, oil odor and stain on bedding planes, from 5823-5824. Shale: grey, earthy fractures, calcareous, argillaceous, brittle, anhydritic.
5826	5827	Anhydrite: white grey, interbedded with black calcareous Shale, thin seams of both.
5827	5828	Shale: black, poker chip, faint oil odor on bedding planes, very faint yellow fluorescence, very very faint cut.
5828	5830	Anhydrite: white grey, crystalline.
5830	5831	Limestone: grey brown, slightly dolomitic, slightly anhydritic, compact, hard and tight.
5831	5837	Anhydrite: grey, compact, hard, tight, microcrystalline.

Form OGCC-3

6

STATE OF UTAH

OIL & GAS CONSERVATION COMMISSION

SUBMIT IN DUPLICATE*
(See other instructions on reverse side)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

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

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

2. NAME OF OPERATOR: BUCKHORN PETROLEUM CO.

3. ADDRESS OF OPERATOR: P. O. Box 5928 T.A.; Denver, COLORADO 80217

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface 1980' FNL & 1980' FWL (SE NW) Sec. 15-T35S-R25E
San Juan County, Utah
At top prod. interval reported below Approx. Same
At total depth Approx. Same

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

7. UNIT AGREEMENT NAME: ---

8. FARM OR LEASE NAME: COALBED CANYON

9. WELL NO.: 6-15

10. FIELD AND POOL, OR WILDCAT: Wildcat /Desert Creek

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: C SE/4 NW/4 Sec. 15-T35S-R25E

14. PERMIT NO.: 43-037-30806 DATE ISSUED: 8-25-82

12. COUNTY OR PARISH: San Juan 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
9-28-82	10-15-82	P&A 10-16-82	6739' GL; 6754' KB	N/A

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
5832'(LTD)	Surface	No	→	0-5842'	N/A

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

25. WAS DIRECTIONAL SURVEY MADE: No

26. TYPE ELECTRIC AND OTHER LOGS RUN: DIL/SFL/GR, FDC/CNL, BHC-Sonic (10-15-82)

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
9-5/8"	36#	2004' KB	12¼"	675 sx-did not circ.	None
Estel	J-55, ST&C		add'l	100 sx thru 1" pipe in	
				annulus; circ'd 5 sx	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)
None	--	--	--	--

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
None	--	--

31. PERFORATION RECORD (*Interval, size and number*): None

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5842'-5642'	70 sx 50:50 poz plug-Desert Creek
4050'-3950'	35 sx 50:50 poz plug-isolate Honake
2050'-1950'	35 sx 50:50 poz plug-base surf csg
±57'-surf	20 sx 50:50 poz plug-top surf csg

33.* PRODUCTION

DATE FIRST PRODUCTION: N/A

PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*): N/A

WELL STATUS (*Producing or shut-in*): D & A

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: core plug analysis - 22 plugs 5762'-5831'

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

SIGNED Rodney D. Smith TITLE Petroleum Enginer DATE November 4, 1982

*(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.
			No DSTs
Desert Creek/ Akah	5762'	5822'	Core #1 Cut 60', rec'd 60'
Akah	5822'	5842'	Core #2 Cut 20', rec'd 15'
			Core plugs from all carbonate zones were analyzed; please see plug analysis attached. Both Desert Creek & Akah exhibited extremely low permeability, less than 5% porosity, and were wet throughout.

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Shinarump	2659'	(+4095)
Moencopi	2720'	(+4034)
Honaker Trail	4440'	(+2314)
Ismay	5484'	(+1270)
Desert Creek	5714'	(+1040)
Akah	5782'	(+972)
Logger's TD	5832'	
Rotary TD	5842'	

Form OGC-1b

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

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.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

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

7. UNIT AGREEMENT NAME: ---

2. NAME OF OPERATOR: BUCKHORN PETROLEUM CO.

8. FARM OR LEASE NAME: COALBED CANYON

3. ADDRESS OF OPERATOR: P.O. Box 5928 T.A.; Denver, COLORADO 80217

9. WELL NO.: 6-15

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface: 1980' FNL & 1980' FWL (SE NW) Sec. 15-T35S-R25E
San Juan County, Utah
At TD: Approx. Same

10. FIELD AND POOL, OR WILDCAT: Wildcat/Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: C SE NW Sec. 15-T35S-R25E

14. PERMIT NO.: 43-037-30806

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6739' GL; 6753' DF; 6754' KB

12. COUNTY OR PARISH: San Juan

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*	[XX]
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 well was plugged for abandonment as follows:

70 sx cmt plug	5842'-5642'	Desert Creek/Akah
35 sx cmt plug	4050'-3950'	isolate Honaker Trail
35 sx cmt plug	2050'-1950'	across base surf csg
20 sx cmt plug	±57'-surf	top surf csg w/regulation DHM

Job was complete at 6:00 p.m. 10-16-82; and LLL Drlg Rig 2 was released at 11:30 p.m.

You will be notified when the location has been cleaned up and is ready for inspection.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 11/12/82
BY: [signature]

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

SIGNED [signature] Rodney D. Smith TITLE Petroleum Engineer DATE November 4, 1982

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Form OGC-1b

SUB N TRIPLICATE*
(Other instructions on reverse side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

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 [X] GAS WELL [ ] OTHER DRY

2. NAME OF OPERATOR: BUCKHORN PETROLEUM CO.

3. ADDRESS OF OPERATOR: P.O. Box 5928 T.A.; Denver, COLORADO 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface: 1980' FNL & 1980' FWL (SE NW) Sec. 15-T35S-R25E
San Juan County, Utah
At TD: Approx. Same

5. LEASE DESIGNATION AND SERIAL NO.: Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: ---

7. UNIT AGREEMENT NAME: ---

8. FARM OR LEASE NAME: COALBED CANYON

9. WELL NO.: 6-15

10. FIELD AND POOL, OR WILDCAT: Wildcat/Desert Creek

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: C SE NW Sec. 15-T35S-R25E

12. COUNTY OR PARISH: San Juan

13. STATE: Utah

14. PERMIT NO.: 43-037-30806

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6739' GL; 6753' DF; 6754' KB

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*	[XXX]	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 well was drilled to 5762', and cored from 5762 to RTD 5842'. Cores exhibited little to no porosity, with no hydrocarbons present. Logs confirmed that both the Desert Creek and Akah formations were extremely tight and wet.

Therefore, Buckhorn Petroleum Co. et al propose to plug the well as follows:

70 sx cmt plug	5842'-5642'	Desert Creek/Akah
35 sx cmt plug	4050'-3950'	isolate Honaker Trail
35 sx cmt plug	2050'-1950'	across base surf csg
20 sx cmt plug	±57'-surf	top surf csg w/regulation DHM

Verbal approval for plugging was granted by Cleon Feight to 'Curley' Grimlie in a telephone conversation 1:30 a.m. 10-16-82.

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 11/17/82
BY: [signature]

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

SIGNED: Rodney D. Smith TITLE: Petroleum Engineer DATE: November 4, 1982

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

Buckhorn - #6-15 Coalbed Canyon (Contractor - Brinkerhoff-Signal Rig 76) Spud
SE NW Sec. 15-T35S-R25E, San Juan County, Utah PTD 5870' Desert Creek
(Buckhorn - 66.6667%WI BCP, 50.000%WI ACP) Cedar Pt. Prosp. Coquina F.O. AFE BEW 2202

9-24-82 Drlg rat & mouse hole. Yesterday set and cmtd. 40' of 18" steel conductor pipe. Start MI rig tomorrow. Probably will spud on Tuesday.

9-25-82 MI & RURT

9-26-82 SDFS. 24 hrs. MI & RURT.

9-27-82 RURT. Should spud tonight, weather permitting.
(Costs: LLL Drlg - rat & mousehole $ 5,722)

9-28-82 Drlg rat hole. RURT. Wait on water, weld drlg nipple conductor pipe, mix mud.
Daily Cost $37,828 Cum. Cost $43,550

9-29-82 450', Drlg. Made 400' in 19½ hrs drlg; 2½ hrs PU BHA; 1 hr rig service; 3/4 hr surveys - 1° @ 145', 3/4° @ 206, 1° @ 308', 3/4° @ 409'; ¼ hr drlg rat hole. WELL SPUD AT 8:45 A.M. 9-28-82. Drlg w/spud mud - MW 8.5; vis 36; pH 8.0; LCM 2%. Bit wt 35M#, 70 rpm; 1000 psi pump press, 102 SPM, 504 GPM. Bit #1, 12¼" HTC J33 (16-16-18) In @ 50', drlg - 400' in 19½ hrs drlg, 20.5'/hr. S/N not reported.
BHA: Bit, 6-pt reamer, shock tool, stabilizer, 8" DC, stabilizer, 2 - 8" DCs, 6 - 6¼" DCs = 318'.
Daily Cost: $24,257. Cum. Well Cost: $70,241.**
**includes add'l charges totalling $2,434. from previous days.

9-30-82 932', drlg, made 482'. 24 hr. breakdown: 19½ hrs. drlg; 1 hr. survey & broke line; 3¼ hr. trip for srvy tool; ¼ hr. rig service. Surveys: ½° @ 520', 3/4° @ 650', 1° @ 780'. MW 9, VIS 38, 3% LCM. Bit #1: 12¼" STC F3 (16-16-18). In at 50', made 882' in 39 hrs. 22.6'/hr. Bit wt: 4-9M#, RPM 70, pump #1 psi 1000, SPM 102; pump #2 psi 1000, SPM 96. BHA - bit, 6-point reamer, shock tool, stabilizer, 1 - 8" DC, stabilizer, 2 - 8" DCs, 6 - 7" DCs, 21 - 6¼" DCs. Length 896'.
Daily Cost $12,802 Cum. Cost $83,043

10-1-82 1528', mixing mud, lost circ, made 596'. 24 hr. breakdown: 15-3/4 hrs. drlg; 2¼ hrs. survey; ¼ hr. rig service; 5-3/4 hrs. lost circ. Lost circ @ 1402', pull 6 stands, mix mud and pump in hole. Got full returns, lost approx. 200 bbl. mud, TIH w/6 stands. Lost circ @ 1496', lost approx. 200 bbl mud, vis 40, 16% LCM built up to 40% LCM. Lost circ @ 1528', mix mud. DB 1070-1216' drlg ½-1 min/ft; 1258-1317' drlg ½-1 min/ft; 1369-1380' drlg ½ min/ft; 1390-1402', 12' in 4 min., lost all the mud. Surveys: ½° @ 900'; 1¼° @ 996'; 3/4° @ 1085'; 1½° @ 1210', 1° @ 1393' and 1° @ 1487'. MW 8.6, VIS 35, LCM 16-40%. Bit #1: 12¼", STC F3 (16-16-18). In at 50', made 1478' in 54-3/4 hrs. 26.9'/hr. Bit wt: 45M#, RPM 70, pump #1: 1000 psi pump pr, SPM 102; pump #2: 1000 psi pump pr, SPM 96. BHA - same. Length 896'.
Daily Cost $11,542 Cum. Cost $94,585

CORE-GAMMA CORRELATION

for

BUCKHORN PETROLEUM COMPANY

6-15 COAL BED CANYON WELL
WILDCAT
SAN JUAN COUNTY, UTAH

RECEIVED
DEC 13 1982
DIVISION OF
OIL, GAS & MINING

CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY	BUCKHORN PETROLEUM CO.	FIELD	WILDCAT	FILE	RP-3-003236
WELL	6-15 COAL BED CANYON	COUNTY	SAN JUAN	DATE	10-14-82
LOCATION	SE NW SEC.15-35S-25E	STATE	UTAH	ELEV.	6739 GL

CORE-GAMMA CORRELATION

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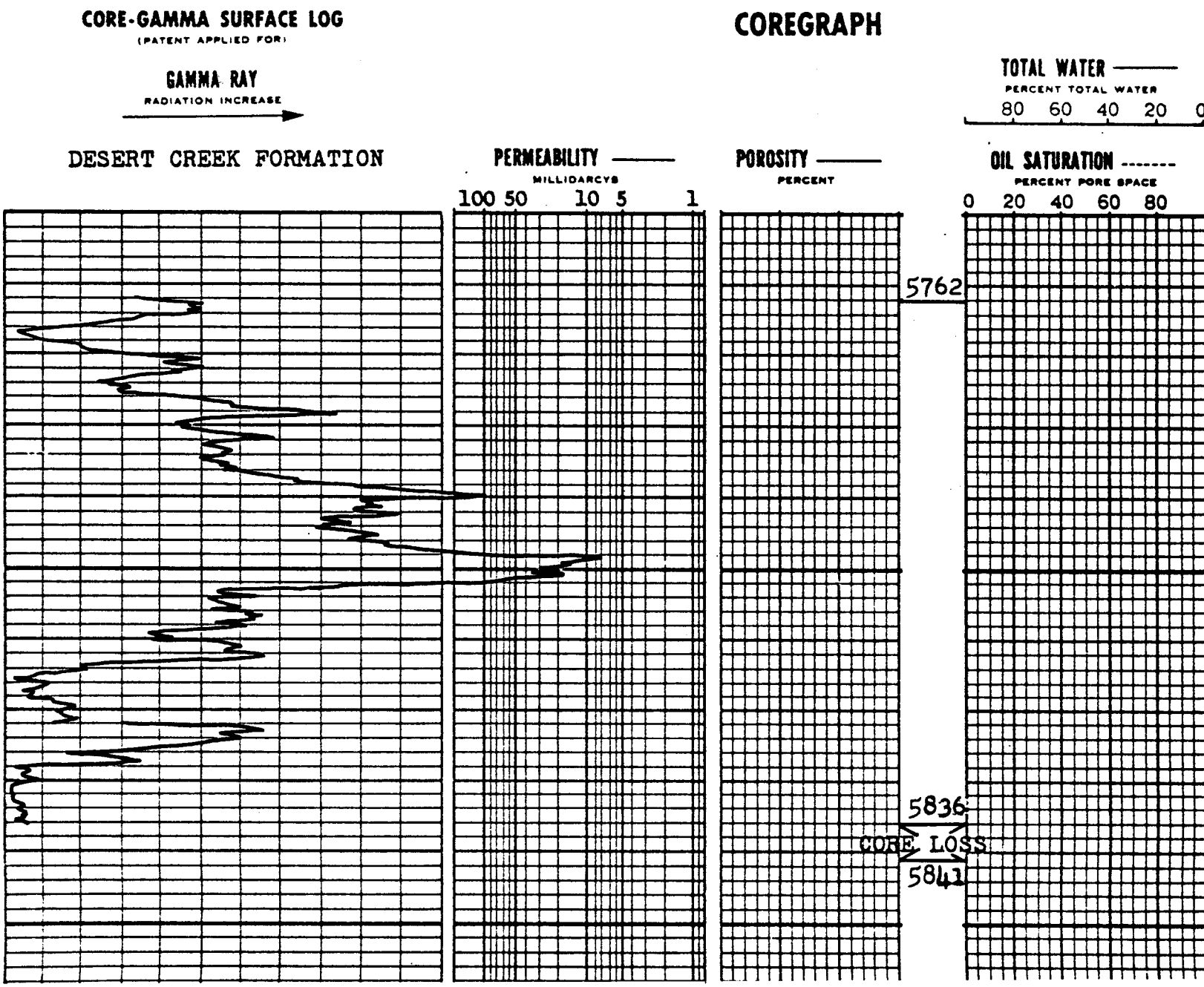
VERTICAL SCALE: 5" = 100'



CORE-GAMMA CORRELATION

for

BUCKHORN PETROLEUM COMPANY

6-15 COAL BED CANYON WELL
WILDCAT
SAN JUAN COUNTY, UTAH

CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY	BUCKHORN PETROLEUM CO.	FIELD	WILDCAT	FILE	RP-3-003236
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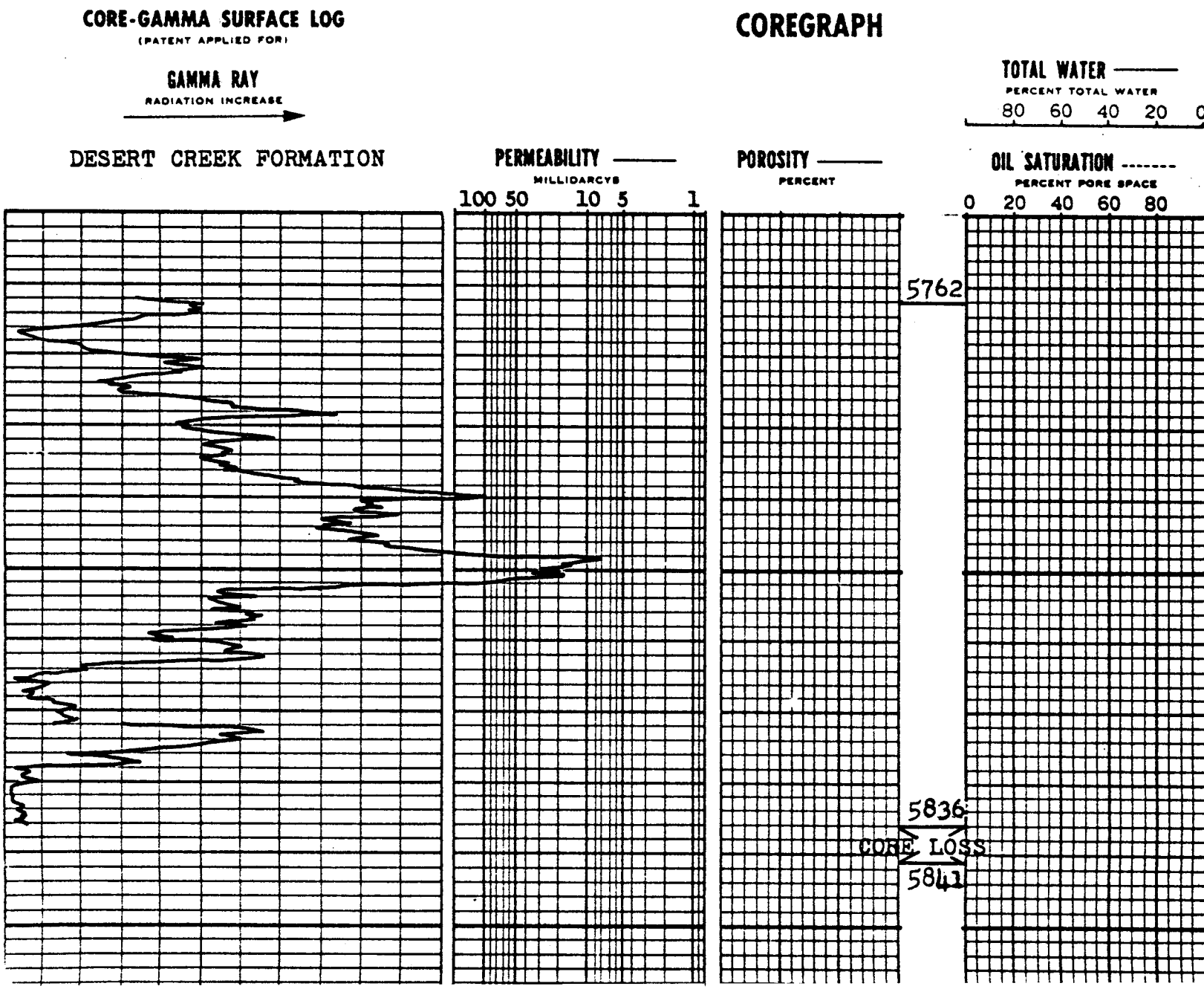

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

BUCKHORN PETROLEUM COMPANY
COALBED CANYON NO. 6-15 WELL
WILDCAT
SAN JUAN COUNTY, UTAH

DATE ON : 28-OCT-82 OFF: 01-NOV-82
FORMATION :
DRLG. FLUID:
LOCATION :

FILE NO : 3806-7014
LABORATORY: AURORA, COLORADO
ANALYSTS :
ELEVATION :

CONVENTIONAL PLUG ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MD MAX Ka	FLD POR	OIL% PORE	WTR% PORE	DESCRIPTION
1	5762.0-63.0	0.21	2.7	0.0	78.5	LS GRY F-XLN
2	5763.0-64.0	<0.01	2.6	0.0	81.1	LS GRY F-XLN
3	5764.0-65.0	<0.01	2.5	0.0	68.7	LS GRY F-XLN
4	5765.0-66.0	<0.01	2.5	0.0	78.4	LS GRY F-XLN
5	5766.0-67.0	<0.01	1.4	0.0	51.5	LS GRY F-XLN ANHY
	5767.0-74.0					NO ANALYSIS-CLIENT REQUEST-ANHYDRITE-SHALE
6	5774.0-75.0	<0.01	5.1	0.0	67.4	LS TAN F-XLN VF
7	5775.0-76.0	<0.01	4.7	0.0	74.9	LS TAN F-XLN VF
8	5776.0-77.0	<0.01	6.1	0.0	82.3	LS TAN F-XLN VF
9	5777.0-78.0	<0.01	3.7	0.0	80.7	LS TAN F-XLN VF
	5778.0-82.0					NO ANALYSIS-CLIENT REQUEST-SHALE
10	5782.0-83.0	<0.01	3.8	0.0	88.2	LS DK-GRY F-XLN
11	5783.0-84.0	<0.01	3.5	0.0	84.0	LS DK-GRY F-XLN
	5784.0- 2.0					NO ANALYSIS-CLIENT REQUEST-SHALE
12	5802.0- 3.0	0.02	2.1	0.0	81.0	LS GRY F-XLN
13	5803.0- 4.0	<0.01	2.4	0.0	81.4	LS GRY F-XLN
14	5804.0- 5.0	<0.01	2.7	0.0	71.3	LS GRY F-XLN
15	5805.0- 6.0	<0.01	3.0	0.0	71.1	LS GRY F-XLN
16	5806.0- 7.0	<0.01	3.2	0.0	78.7	LS GRY F-XLN
17	5807.0- 8.0	<0.01	4.0	0.0	72.9	LS GRY F-XLN
	5808.0- 9.0					NO ANALYSIS-CLIENT REQUEST-SHALE
18	5809.0-10.0	<0.01	2.2	0.0	74.8	LS GRY MICRO-XLN VF
19	5810.0-11.0	<0.01	2.3	0.0	74.2	LS GRY MICRO-XLN VF
20	5811.0-12.0	<0.01	1.2	0.0	69.8	LS GRY MICRO-XLN VF
21	5812.0-13.0	<0.01	1.7	0.0	65.8	LS GRY MICRO-XLN VF
	5813.0-30.0					NO ANALYSIS-CLIENT REQUEST-SHALE
22	5830.0-31.0	<0.01	2.4	0.0	81.0	LS GRY F-XLN
	5831.0-37.0					NO ANALYSIS-CLIENT REQUEST-ANHYDRITE

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

BUCKHORN PETROLEUM COMPANY

COALBED CANYON NO. 6-15 WELL
WILDCAT
SAN JUAN COUNTY, UTAH

RECEIVED
JAN 24 1983
DIVISION OF
OIL, GAS & MINING

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CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

BUCKHORN PETROLEUM COMPANY
COALBED CANYON NO. 6-15 WELL
WILDCAT
SAN JUAN COUNTY, UTAH

DATE ON : 28-OCT-82 OFF: 12-JAN-83
FORMATION : DESERT CREEK
DRLG. FLUID: WATER BASE MUD
LOCATION : SE NW SEC 15 T35S R25E

FILE NO : 3806-7014
LABORATORY: AURORA, COLORADO
ANALYSTS :
ELEVATION : 6739 GL

CONVENTIONAL PLUG ANALYSIS

SAMPLE NUMBER	DEPTH FEET	PERM MD MAX Ka	FLD POR	OIL% PORE	WTR% PORE	DESCRIPTION
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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

PERMEABILITY VS POROSITY

COMPANY: BUCKHORN PETROLEUM COMPANY
FIELD : WILDCAT

WELL : COALBED CANYON NO. 6-15 WELL
COUNTY, STATE: SAN JUAN COUNTY, UTAH

AIR PERMEABILITY : MD - HORIZONTAL (UNCORRECTED FOR SLIPPAGE)
POROSITY : PERCENT (FLUID SUMMATION)

DEPTH INTERVAL	RANGE & SYMBOL	PERMEABILITY MINIMUM	PERMEABILITY MAXIMUM	POROSITY MIN.	POROSITY MAX.	POROSITY AVERAGE	PERMEABILITY AVERAGES ARITHMETIC	HARMONIC	GEOMETRIC
5762.0 - 5831.0	1 (X)	0.000	1.0	1.0	7.0	3.0	0.02	0.01	0.01

EQUATION OF REDUCED LINE RELATING PERMEABILITY(K) TO POROSITY :

LOG(K) = (SLOPE)(POROSITY) + LOG OF INTERCEPT
K = ANTILOG((SLOPE)(POROSITY) + LOG OF INTERCEPT)

RANGE	EQUATION OF THE LINE
1	PERM = ANTILOG((0.2476)(POROSITY) + -2.7082)

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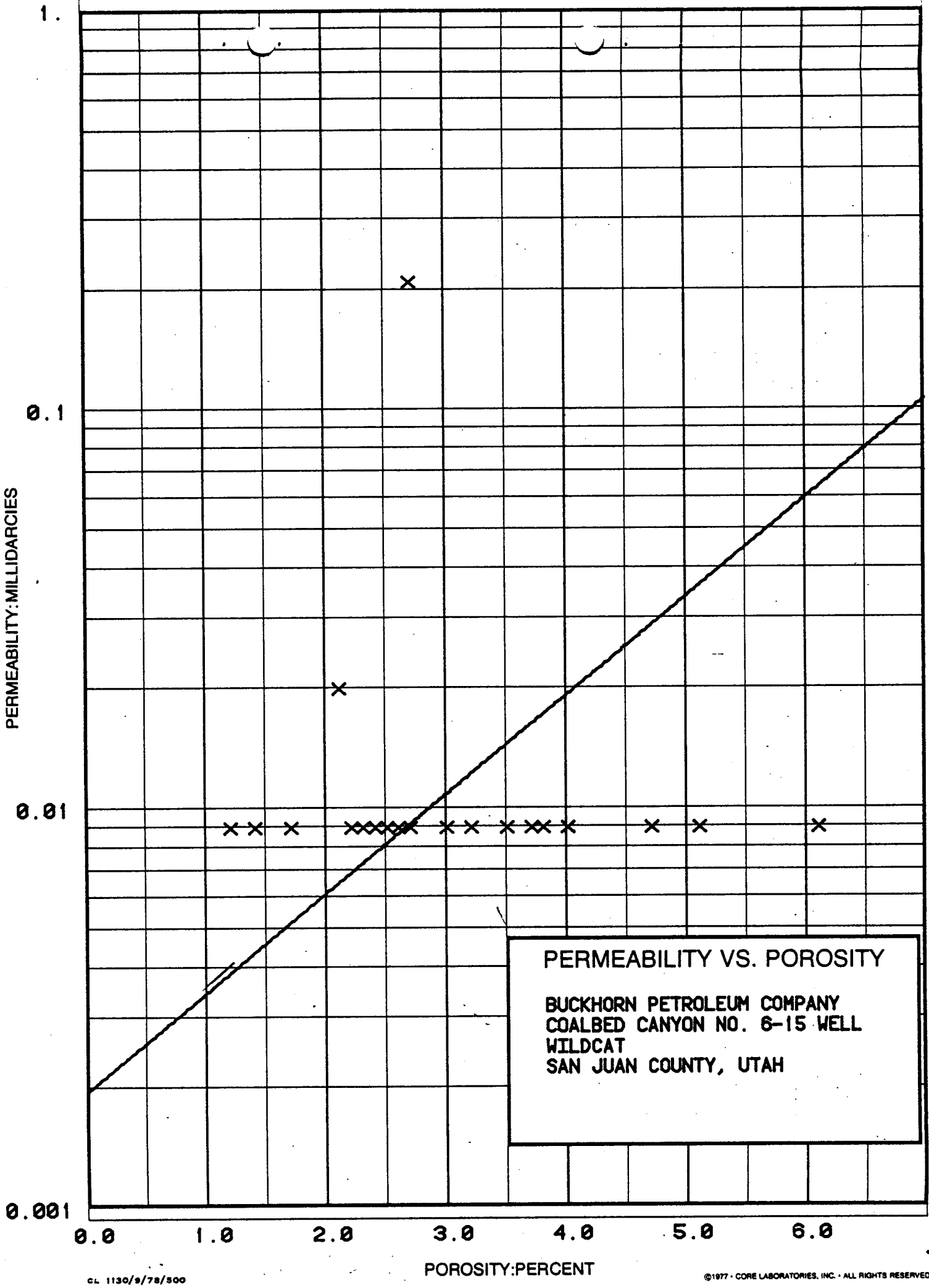

CL 1130/9/78/500

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CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY BUCKHORN PETROLEUM COMPANY — FILE NO. 3000-7014
WELL COALBED CANYON NO. 6-15 WELL — DATE 28 OCT 1982 — ENGRS. AT:CW
FIELD WILDCAT — FORMATION DESERT CREEK — ELEV. 6739 GL
COUNTY SAN JUAN — STATE UTAH — DRLG. FLD. WATER BASE MUD — CORES

CoRes Log

CORE and RESISTIVITY EVALUATION

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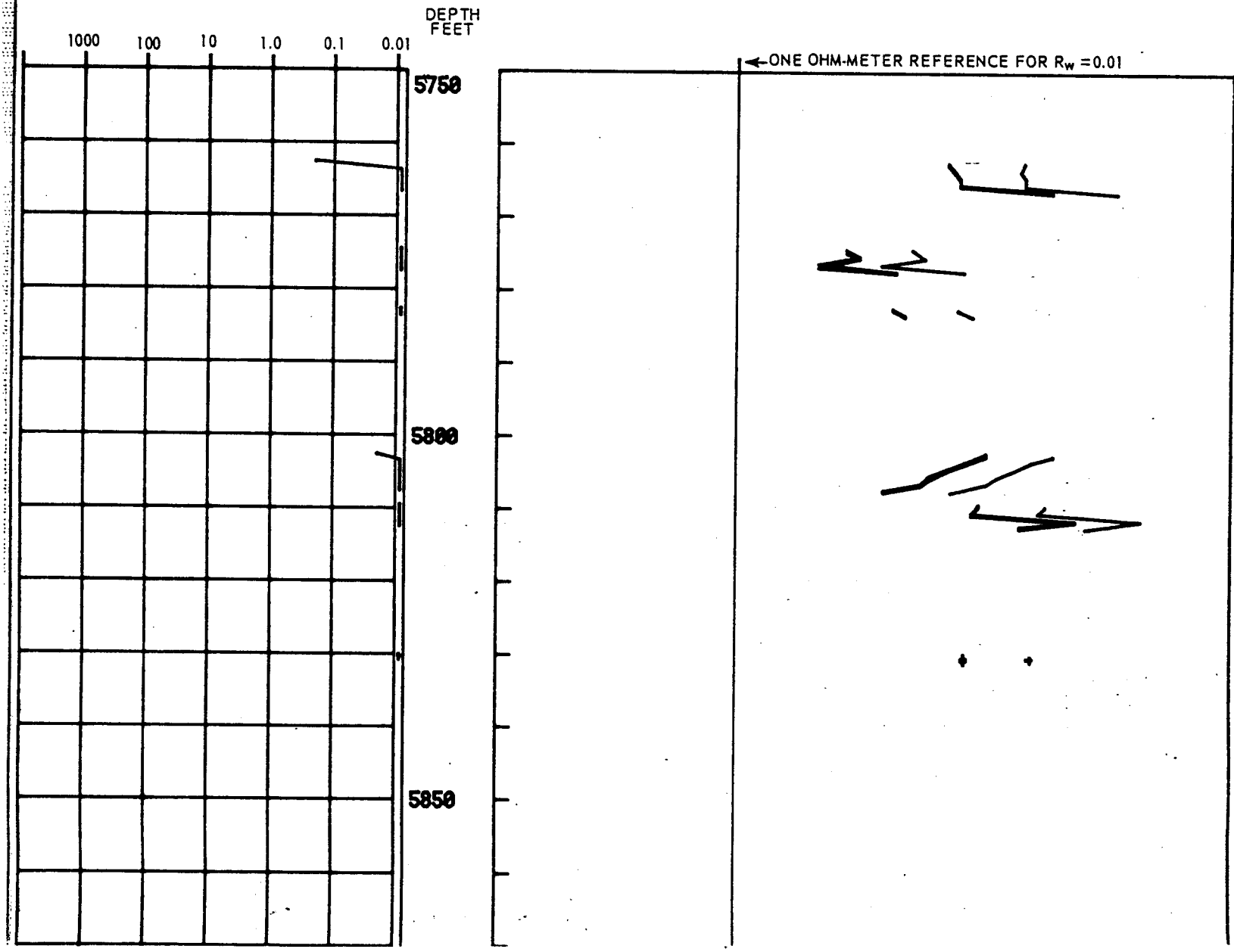
RESISTIVITY PARAMETERS: a = 1.00 m = 2.00 n = 2.00 . Depths 5762.0 to 5831.0.
a = _____ m = _____ n = _____ . Depths _____ to _____.

PERMEABILITY
MILLIDARCIES

CORE ANALYSIS CALCULATED RESISTIVITY
R_o = OHM-METERS AT 100% S_w
R_{mp} = OHM-METERS AT CRITICAL S_w



CORE LABORATORIES, INC. *Petroleum Reservoir Engineering*

COMPANY BUCKHORN PETROLEUM COMPANY — FILE NO. 3806-7014
WELL COALBED CANYON NO. 6-15 — DATE 28-OCT-82
FIELD WILDCAT — FORMATION DESERT CREEK — ELEV. 6739 GL
COUNTY SAN JUAN — STATE UTAH — DRLG. FLD. WATER BASE MUD — CORES
LOCATION SE NW SEC 15 T35S R25E

CORRELATION COREGRAPH

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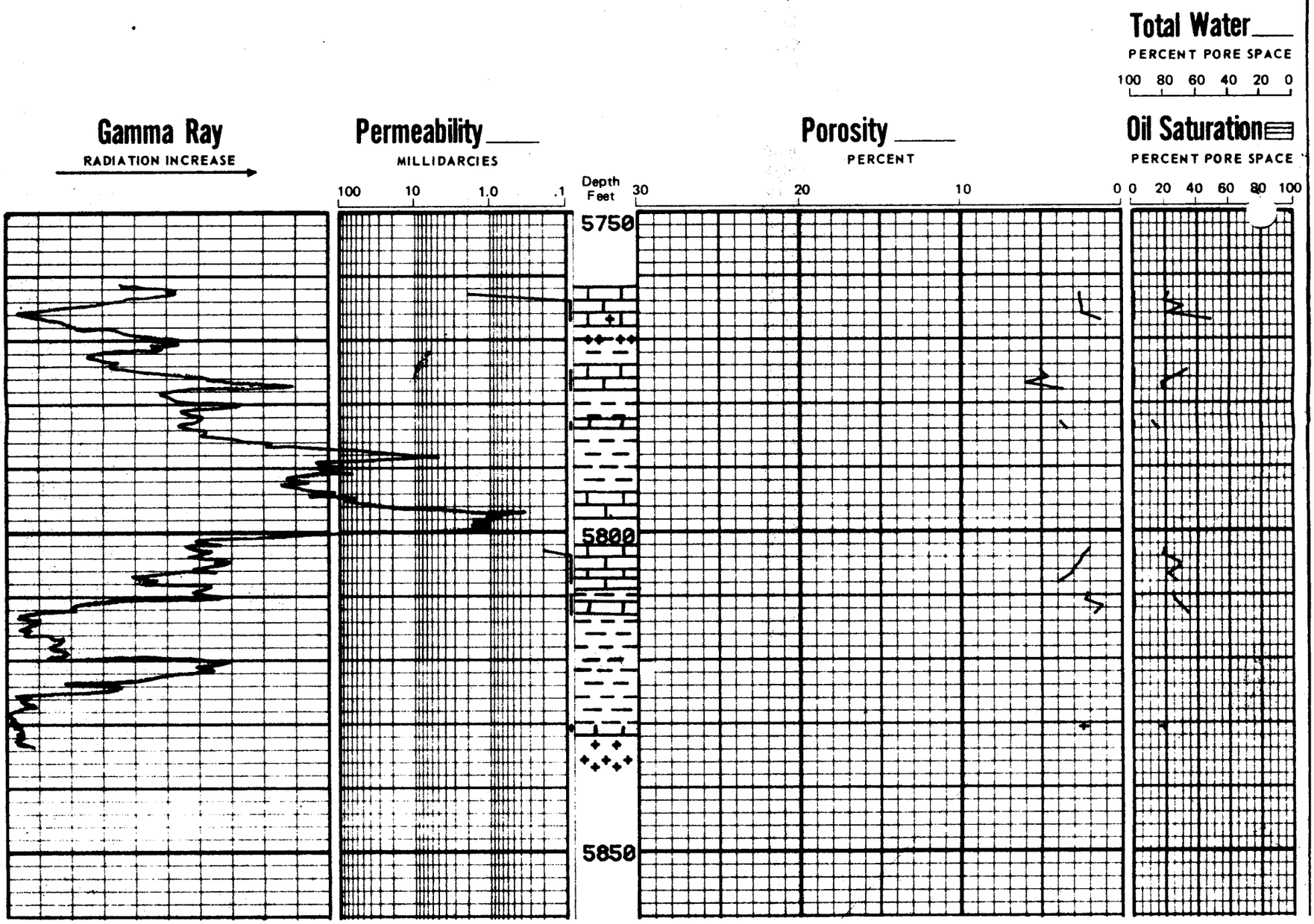
VERTICAL SCALE: 5" = 100'