

STATE OF KANSAS
STATE CORPORATION COMMISSION
CONSERVATION DIVISION
245 North Water
WICHITA, KANSAS 67202

Rev. 6-3-74
FORM CP-1

WELL PLUGGING APPLICATION FORM
File One Copy

API Number 15 -153 -20357-00-00 (of this well)
Lease Owner Oxford Exploration Company, Inc.
Address 1030 Denver Club Building, Denver, Colorado 80202
Lease (Farm Name) Pettera Well No. 3-8
Well Location SE/NE Sec. 3 Twp. 1S Rge. 31 (E) (W) X
County Rawlins Total Depth 4375' Field Name
Oil Well Gas Well Input Well SWD Well Rotary D & A X
Well Log attached with this application as required Yes
Date and hour plugging is desired to begin 6/15/79

PLUGGING OF THIS WELL WILL BE DONE IN ACCORDANCE WITH K.S.A. 55-128 OF THE RULES AND REGULATIONS OF THE STATE CORPORATION COMMISSION.

Name of company representative authorized to be in charge of plugging operations:

Vernon Stewart Address Sterling, Colorado 80751

Plugging Contractor Toltek Drilling Company License No.

Address 340 Denver Club Building, Denver, Colorado 80202


Invoice covering assessment for plugging this well should be sent to:

Name Oxford Exploration Company, Inc.

Address 1030 Denver Club Building, Denver, Colorado 80202

and payment will be guaranteed by applicant or acting agent.

RECEIVED
STATE CORPORATION COMMISSION
10-29-1979

Signed: 
Applicant or Acting Agent
R. D. Gasch
Date: October 24, 1979

State of Kansas



State Corporation Commission

CONSERVATION DIVISION

(Oil, Gas and Water)
245 North Water
WICHITA, KANSAS 67202
Telephone (316) 263-3238

15-153-20357-00-00

June 20, 1979

WELL PLUGGING AUTHORITY

Well No.	3-8
Lease	Pettera
Description	SE NE Sec. 3-1S-31W
County	Rawlins
Total Depth	4375'
Plugging Contractor	Toltek Drilling Company

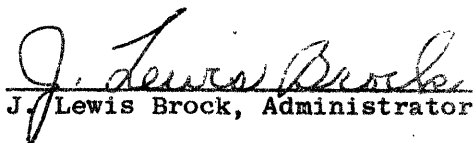
Oxford Exploration Company
1030 Denver Club Building
Denver, Colorado 80202

Gentlemen:

This is your authority to plug the above subject well in accordance with the Rules and Regulations of the State Corporation Commission.

This authority is void after 90 days from the above date.

Yours very truly,


J. Lewis Brock, Administrator

Mr. Gilbert Balthazor, P.O. Box 9, Palco, Kansas 67657
is hereby assigned to supervise the plugging of the above
named well.

OXFORD EXPLORATION COMPANY

No. 3-8 Pettera

NE SE Section 3, T1S-R31W
Rawlins County, Kansas

JAMES K. PRICE
Geologist

15-153-20357-00-00

RECEIVED
STATE CORPORATION COMMISSION
06-25-1979
JUN 25 1979

CONSERVATION DIVISION
Wichita, Kansas

15-153-20357-00-00

WELL: No. 3-8 Pettera

OPERATOR: Oxford Exploration Company

CONTRACTOR: Toltek Drilling Company, Rig No. 4
Toolpusher: Vernon Stewart

LOCATION: SE NE Section 3, Township 1 South, Range 31 West

COUNTY: Rawlins

STATE: Kansas

ELEVATION: 2888 G.L. 2896 K.B.

COMMENCED: June 5, 1979

CASING: 326.95', 8-5/8" casing set at 336' K.B., with
200 sacks regular, with 2% CaCl, 3% Gel. Plug
down at 11:30 P.M., June 5, 1979. Fair returns.

CORES: None

DRILLSTEM TESTS: DST No. 1 4007-4115' ("D" and "E" Zones)

LOGS: Radiation Guard Log (Petro Log, Eng: Bob Wilson)

COMPLETED DRILLING: June 14, 1979, 5:50 P.M.

STATUS: D & A

FORMATION TOPS (LOGS)

<u>FORMATION</u>	<u>DEPTH</u>	<u>ELEVATION</u>
Niobrara	900	+1996
Fort Hays	1273	+1623
Greenhorn	1559	+1337
Dakota	1695	+1201
Morrison	2247	+649
Blaine	2434	+462
Cedar Hills	2488	+408
Stone Corral	2704	+192
b/Stone Corral	2744	+152
Foraker	3444	-548
Oread	3787	-891
Lansing "A" Zone	3891	-995
Lansing "B" Zone	3944	-1048
Lansing "C" Zone	3977	-1081
Lansing "E" Zone	4074	-1178
Lansing "F" Zone	4113	-1217
b/Lansing-K.C.	4140	-1244
Cherokee SS.	4330	-1434
TOTAL DEPTH	4375 (Logger) 4380 (Driller)	

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WELL REPORT
NO. 3-8 PETTERA

C H R O N O L O G I C A L H I S T O R Y

<u>DATE</u>	<u>DEPTH (7:00 A.M.)</u>	<u>DAY OF OPERATION</u>	<u>COMMENTS</u>
6-5-79	-	1	Rig up, spud and ran surface csg.
6-6-79	324	2	Drilling mouse hole.
6-7-79	2118	3	Drilling - losing circulation.
6-8-79	2740	4	Waiting on water.
6-9-79	2772	5	Fishing.
6-10-79	2772	6	Fishing.
6-11-79	3019	7	Lost circulation @ 2:30 a.m. Mixing LCM.
6-12-79	3606	8	Drilling.
6-13-79	4023	9	Trip for Bit No. 5.
6-14-79	4197	10	Drilling. T.D. 4380 @ 5:50 P.M.
6-15-79	4380	11	Waiting on cementers. D&A.

B I T R E C O R D

<u>NO.</u>	<u>MAKE</u>	<u>SIZE</u>	<u>TYPE</u>	<u>DEPTH OUT</u>	<u>FEET</u>	<u>HOURS</u>	<u>DEVIATION</u>
1A	HTC	12-1/4	RR	336			
1	HTC	7-7/8	OSC3J	2366	2030	16-1/4	1° @ 2366'
2	HTC	7-7/8	OSC3J	2772	436	10-1/4	
3	STC	7-7/8	DTJ	3548	776	15-1/2	1° @ 3548'
4	STC	7-7/8	DTJ	4023	485	17-1/4	
5	HTC	7-7/8	OSC3J	4380	357	12-3/4	

P L U G S

Plug No. 1: 70 sacks @ 1220'
 Plug No. 2: 20 sacks @ 330'
 Plug No. 3: 10 sacks @ 40'
 Plug No. 4: 3 sacks in Rat Holes.

L O G A N A L Y S I S

<u>INTERVAL</u>	<u>FORMATION</u>	<u>POROSITY</u>	<u>Rw</u>	<u>Sw(%)</u>
3791-93		8.5	.07	73
3797-98	Oread	7		81
3798-3800	Oread	8		69
3800-02	Oread	9		59
3802-05		9		66
3842-43		13		49
3843-45		13		77

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WELL REPORT
NO. 3-8 PETTERA

LOG ANALYSIS (Continued)

<u>INTERVAL</u>	<u>FORMATION</u>	<u>POROSITY</u>	<u>Rw</u>	<u>Sw(%)</u>
3945-49	Lansing "B"	7		100
3978-86	Lansing "C"	7.5		100
4030-36	Lansing "D"	3		100
4078-80	Lansing "E"	5.5		100
4080-82	Lansing "E"	7		27
4114-18	Lansing "F"	9		100
4334-44	Cherokee	21	.12	100

D R I L L S T E M T E S T S

DST NO. 1, 4007-4115'

IFP 30 min., ISIP 60 min., FFP 15 min., FSIP 75 min.

Opened with a very weak blow which died in 20 minutes. No blow during the final flow period.

Pipe Recovery: 20' Mud w/trace of Oil

Pressures: IH 2055 FF 90-90
IF 90-90 FSI 1059
ISI 1077 FH 2037

BHT: 115° F

S A M P L E D E S C R I P T I O N

<u>LOG DEPTH</u>	<u>DESCRIPTION</u>
<u>SAMPLE DEPTH</u>	
3370-3400	SHALE, orange-red, silty; LIMESTONE, dense to chalky, some relict clastic texture, grey-tan to white with some mottled orange-red clay contamination.
3400-30	SHALE and LIMESTONE, as above.
3430-60	Sample, as above.
3460-90	Sample, as above, with SHALE, dark grey to black.
3490-3520	Sample, as above with grey SHALE, as above and some SILTSTONE, grey, calcareous.

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WELL REPORT
NO. 3-8 PETTERA

S A M P L E D E S C R I P T I O N (Continued)

<u>LOG DEPTH</u>	<u>SAMPLE DEPTH</u>	<u>DESCRIPTION</u>
	3520-50	Mixed SHALE - Trip Sample.
	3550-80	Mostly cavings, as above - Trip Sample.
	3580-3610	SHALE, multicolored, red, pink, purple; some LIMESTONE, tan, grey, dense clastic texture, no shows; SHALE, grey, as above.
	3610-40	Sample, as above.
	3640-70	Sample, as above; trace CHERT, white-orange banded.
	3670-3700	Sample, as above.
	3700-30	LIMESTONE, mottled tan-white, dense to chalky, some with pale yellow tint, no visible porosity, no shows, fusulinides; SHALE, orange-red to purple.
	3730-50	Sample, as above.
	3750-60	Sample, as above; SHALE, as above, increasing.
	3760-70	LIMESTONE, mottled with pink-red contamination; SHALE, as above.
	3770-80	Sample, as above.
	3780-90	Sample, as above; with increase in SHALE, brick red to brown.
OREAD (3792)	- - - - -	- - - - -
	3790-3800	LIMESTONE, white to grey, dense, increasing in sample, as above.
	3800-10	No sample.
	3810-20	LIMESTONE, grey-tan, dense, some with faint relict clastic texture, no visible porosity or shows.
	3820-30	LIMESTONE, grey to white, dense to chalky in part.
	3830-40	LIMESTONE, as above.

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WELL REPORT
NO. 3-8 PETERA

S A M P L E D E S C R I P T I O N (Continued)

<u>LOG DEPTH</u>	<u>SAMPLE DEPTH</u>	<u>DESCRIPTION</u>
	3840-50	Sample, as above, some with relict clastic structure.
	3850-60	LIMESTONE, as above.
	3860-70	Sample, as above.
	3870-80	LIMESTONE, as above, with some oolitic mottled, tan, yellow, white; SHALE, red-brown, increasing slightly.
	3880-90	Sample, as above.
	3890-3900	LIMESTONE, increasing, mostly grey-tan dense with much white chalky; SHALE, as above.
	3900-10	Sample, as above.
LANSING "A" ZONE (3896) - - - - -		
	3910-20	LIMESTONE, as above, some tan, dense, some with slightly yellowish caste, no visible porosity or shows.
	3920-25	LIMESTONE, as above.
	3925-30	LIMESTONE, as above, increasingly chalky, no shows.
	3930-35	LIMESTONE, tan, dense, to white chalky, fusulinides.
	3935-40	LIMESTONE, as above.
	3940-45	Sample, as above.
	3945-50	Sample, as above.
	3950-55	Sample, as above.
LANSING "B" ZONE (3950) - - - - -		
	3955-60	LIMESTONE, grey, dense with yellow to red shaly contamination.
	3960-65	LIMESTONE, as above, with trace CHERT, white-grey, translucent.
	3965-70	LIMESTONE, grey-tan, dense to mostly chalky, no visible porosity or shows.

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WELL REPORT
NO. 3-8 PETTERA

S A M P L E D E S C R I P T I O N (Continued)

<u>LOG DEPTH</u>	<u>SAMPLE DEPTH</u>	<u>DESCRIPTION</u>
	3970-75	LIMESTONE, as above.
	3975-80	LIMESTONE, as above, with slight increase in grey, dense, tight, no shows.
	3980-85	LIMESTONE, as above with trace, mottled brown spotty oil staining in chalky porosity.
	3985-90	Sample, as above, no shows.
LANSING "C" ZONE	(3984) - - - - -	- - - - -
	3990-95	LIMESTONE, mixed, as above, increasingly clayey.
	3995-4000	Sample, as above.
	4000-10	Sample, as above.
	4010-20	LIMESTONE, as above, with trace CHERT, amber.
	4023 Circ. 15"	Sample, as above.
	4023-30	Trip Sample, most SHALE, red to brown, some LIMESTONE, as above.
	4030-40	Sample, as above.
LANSING "D" ZONE	(4036) - - - - -	- - - - -
	4040-50	Mixed SHALE, as above and LIMESTONE, grey, tan, dense to chalky, clayey, as above.
	4050-60	Sample, as above.
	4060-70	Sample, as above, with LIMESTONE, as above, increasing.
	4070-80	Sample, as above.
	4080-90	Sample, as above.
LANSING "E" ZONE	(4080) - - - - -	- - - - -
	4090-4100	Sample, as above, with trace fine grainstone with brown oil staining, spotty yellow fluorescence and fair cut.
	4100-10	Sample, as above with trace show, as above.

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S A M P L E D E S C R I P T I O N (Continued)

<u>LOG DEPTH</u>	<u>SAMPLE DEPTH</u>	<u>DESCRIPTION</u>
4110-15		
	CIRC. 20"	LIMESTONE, grey-tan, dense to chalky, no shows.
	40"	Sample, as above.
	60"	Sample, as above.
4115-20		Trip Sample - brick red to brown SHALE.
4120-30		Trip Sample, as above.
LANSING "F" ZONE (4119) - - - - -		
4130-40		Sample, as above, with slight increase in LIMESTONE, mottled, grey-tan, dense, no porosity or shows.
4140-50		No Sample.
4150-60		LIMESTONE, as above, also LIMESTONE, tan, brown, dense, trace crinoidal columnals.
4160-70		Sample, as above.
4170-80		LIMESTONE, grey-tan dense, some white chalky; SHALE, brick red to brown.
4180-90		Sample, as above.
4190-4200		Mixed LIMESTONE, tan, dense to chalky; SHALE, brown, increasing.
4200-10		Sample, as above.
4210-20		Sample, as above, some medium grey SHALE, soft.
4220-30		SHALE, red-brown, as above, grey, as above; LIMESTONE, tan to white chalky, as above.
4230-40		Sample, as above.
4240-50		Sample, as above.
4250-60		Sample, as above, with SHALES increasing.
4260-70		Sample, as above, predominantly SHALE, as above.
4270-80		Sample, as above; LIMESTONE, mottled, somewhat argillaceous.

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WELL REPORT
NO. 3-8 PETTERA

S A M P L E D E S C R I P T I O N (Continued)

<u>LOG DEPTH</u>	<u>SAMPLE DEPTH</u>	<u>DESCRIPTION</u>
	4280-90	Sample, as above, with trace SANDSTONE, fine grained, grey, clay-filled.
	4290-4300	Predominantly SHALE, light grey, slightly calcareous; some brick red to brown; LIMESTONE, as above.
	4300-10	Sample, as above.
	4310-20	Sample, as above.
	4320-30	Sample, as above.
	4333	
	CIRC. 15"	Sample, as above.
	30"	Sample, as above.
	45"	Sample, as above.
	4333-40	Sample, as above.
	4342	
	CIRC. 15"	Sample, as above.
	30"	Sample, as above.
	CHEROKEE SANDSTONE (4335) - - - - -	
	45"	Sample, as above, with SANDSTONE, coarse grained, rounded to very angular mostly clear to amber individual grains, no staining.
	60"	Sample, as above, with no increase in SANDSTONE, as above, no shows.
	4342-80	As above, with SANDSTONE, as above, increasing with depth through 10' samples, no shows.
	4380	
	CIRC. 60"	SANDSTONE, as above.