

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.

USA-NM #040785-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Gov't. Land

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 25-24N-8W

12. COUNTY OR PARISH 13. STATE

San Juan

New Mexico

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

The British-American Oil Producing Company

3. ADDRESS OF OPERATOR

P. O. Box 180, Denver, Colorado 80201

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

At surface

NW NW (660' FNL & 660' FNL)

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

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

640

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

19. PROPOSED DEPTH

5775'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6960' GR Est.

22. APPROX. DATE WORK WILL START*

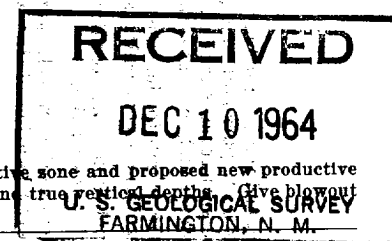
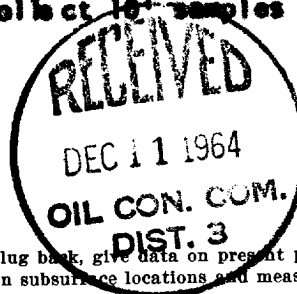
12-21-64

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24#	250'	Cemented to Surface
7-7/8"	5-1/2"	14# & 15.5#	5775'	150 lb.

To drill and test well to the Lower Gallup Sandstone. Core 50' of the Lower Gallup Sand (5610-5660) if warranted by samples. If contents of the sand based on cores, samples, or logs are questionable, a DST of the Lower Gallup will be conducted. Logging: Dual Induction Lateralog from TD to surface casing. Detail from TD to approx. 100' above the Lower Gallup. Comb. Gamma Ray-Sonic-Caliper log from TD to approx. 1000' above TD or intervals selected by geologists. Gamma Ray-Cement Bond Log in conjunction with perforating. Geolograph from 250' to TD. Drift Surveys: At 50' intervals to 250', thereafter as per contract. SLM of drill pipe at approx. 4000', prior to coring, testing, running pipe, and at TD. Collect 10' samples from surface to TD.



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

By Thomas M. Hogan

TITLE District Superintendent

DATE December 7, 1964

(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

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal 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.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

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 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

SECTION A.

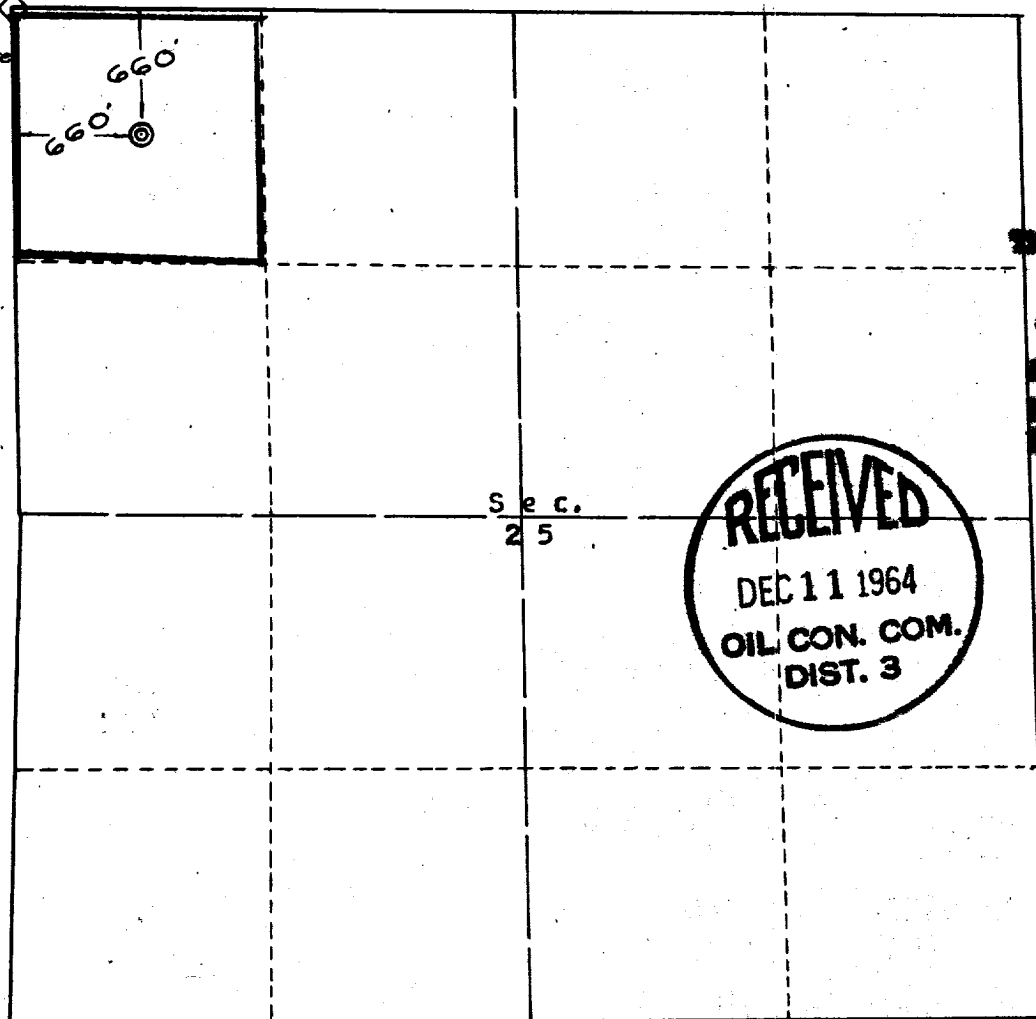
DATE December 6, 1964

OPERATOR British-American Oil Producing Company LEASE Government Lowndes
WELL NO. 1 UNIT LETTER D SECTION 25 TOWNSHIP 24 North RANGE 8 West NMPM
LOCATED 660 FEET FROM North LINE, 660 FEET FROM West LINE
COUNTY San Juan G. L. ELEVATION 6893 DEDICATED ACREAGE 40 ACRES
NAME OF PRODUCING FORMATION L. Gallup POOL Wildcat

1. IS THE OPERATOR THE ONLY OWNER* IN THE DEDICATED ACREAGE OUTLINED ON THE PLAT BELOW? YES X NO _____
2. IF THE ANSWER TO QUESTION ONE IS "NO," HAVE THE INTERESTS OF ALL THE OWNERS BEEN CONSOLIDATED BY COMMUNITIZATION AGREEMENT OR OTHERWISE? YES _____ NO _____ IF ANSWER IS "YES," TYPE OF CONSOLIDATION _____

3. IF THE ANSWER TO QUESTION TWO IS "NO," LIST ALL THE OWNERS AND THEIR RESPECTIVE INTERESTS BELOW:
- | OWNER | LAND DESCRIPTION |
|-------|------------------|
| | |
| | |
| | |

SECTION B.



RECEIVED

DEC 10 1964

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

THIS IS TO CERTIFY THAT THE INFORMATION IN SECTION A ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

The British-American Oil Prod. Co.

(OPERATOR)

Original Signed By:

Joe E. Stone

Joe E. Stone

(REPRESENTATIVE)

P.O. Box 100
Farmington, N.M.



THIS IS TO CERTIFY THAT THE WELL LOCATION SHOWN ON THE PLAT IN SECTION B IS PLOTTED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE SURVEYED Dec. 3, 1964

**FOUR STATES
ENGINEERING CO.**

FARMINGTON, NEW MEXICO

Emmett J. Edwards
REGISTERED ENGINEER OR
LAND SURVEYOR

Scale, 1" = 1000'

CERTIFICATE NO. 3602

WELL LOG - COMPLETION REPORT

A. WELL DATA:

Prospect Name: Blance Canyon
Well Name: British-American No. 1 Government Levees
Location: T-1-N Sec. 25, R24E-T1N
Well Classification: Wildcat
Contractor: Greco
Operator: British-American Oil Producing Company
Casing Record:

Size	Depth Set	Amount Cement
7 5/8 inch	238 feet	130 sk.

Elevation: 6900 ft., L & S
Total Depth, Datum and Formation: 5700 (-1200) Gallup
Commenced Drilling: January 30, 1965
Completed Drilling: February 3, 1965

B. COMPLETION DATA:

Producing Formation: Marye Zone of Gallup would have been the producing zone if well could have been completed.
Gross and Net Pay: 9' gross, 3' net
Initial Bottom Hole Pressure: about 1750 psi
Set Cement Plugs at:
1350 to 1450
1950 to 2100
4500 to 4600
5450 to 5700

C. LOGGING DATA:

Samples and Storage Location: Down hole samples returned to Denver with core chips
Sample Description: From Point Lookout to T.D.
Dual Induction - Laterolog: Surface to T.D.
Sonic-Calipher-Gamma Ray Log: 1900 to 2100; 3800 to 4600; 5200 to 5700;

Blanco Canyon Prospect

T-A No. 1 Government Leases

Sec. 25, T24N-R3W

Amplitude Sonic: 5250 to 5700

Geolograph: Surface to T.D.

Dipmeter: No

Continuous Logging Service, Company & Interval Logged: None

6. LOG SUMMARY:

<u>Name</u>	<u>Well. Log</u>	<u>Well. Gasul.</u>	<u>Fluid Content</u>
Picured Cliffs	2012	+4396	bitu
Shacra	2410	+4491	water
Cliff House	2715	+4123	water
Point Lockhart	4325	+2580	water
Manco shale	4502	+2406	-----
Upper Gallup	5350	+1548	gas, oil
Large None	5532	+1376	oil, gas

7. LOG SUMMARY (Probable or Possible)

<u>Formation</u>	<u>Lithology</u>	<u>Oil or Gas</u>	<u>Interval</u>	<u>Thickness</u>	<u>How Determined</u>
Upper Gallup	Qtzose Siltstone	gas & dist.	5415-19 5448-49	4' 3'	sonic log & samples
Lower Gallup or Large None	Sandstone	oil, gassy	5533-42	9' gross 3' net	core analysis & sonic log

8. LOG SUMMARY:

<u>Core Number</u>	<u>Interval</u>	<u>Feet Recovered</u>	<u>Formation</u>
1	5491-5551	60feet	Gallup

9. LOG SUMMARY:

<u>DST Number</u>	<u>Interval</u>	<u>Formation</u>
1	5354-5700	Gallup

Confidential until May 12, 1965

7. WELL SHUT-IN PRESSURE: (Cont)

Description:

Well open six minutes, SI 30 minutes; Reopened 01 minutes, final SI 45 minutes. 5/8" bottom choke. Good blow increasing to strong blow with 15 in. 20 minutes which was not gauged but burned with 4' flame.

First Flow WFP: 320

First Flow WFP: 334

ICFP: 1666

Second Flow WFP: 347

Second Flow WFP: 454

PCFP: 1791

WFP: 2951

WFP: 2911

Recovered 162 feet heavily oil and gas cut mud. Estimated that 92 feet of like fluid was lost above reverse circulation sub.

DENVER, COLORADO
KENTON
PRODUCTION

British-American #1 Government Lowndes
NW, NW, Sec. 25 T 24N., R 8W.
San Juan County, New Mexico

Sample Description

- 4300 - 10 75% sh. black to gray; 25% Ss., v.f. to m. g., s & p, low p & p, poorly sorted. N/S, cream colored.
- 20 Ss as above, but siltier and dark colored. N/S
- 30 As above, Ss, tite, N/S. 5% of shale is red-brown
- 40 As above
- 50 5% coal; 5% sh., red-brown; 20% Ss., silty med.-gray. poorly sorted, no p & p, N/S
- 60 5% coaly sh., 20% Ss., & silt st., as above, tite, N/S
- 70 30% Ss, m.c.gr., angular, brown mica common, white to yellow, low p & p, N/S
- 80 Ss as above N/S, tr. mineral fluor.
- 90 As above
- 4400 - As above
- 10 30% Ss & silt st., white to lt. gray, v.f.g. to f.g. glauc. poss. spotty stain, tr. fnt. fluor, low p & p
- 20 40% Ss & sltst., as above N/S
- 30 50% Ss & sltst., as above N/S except for tr. of fluor.
- 40 As above but siltier & clayier N/S
- 50 As above N/S
- 60 50% sltst., white, sl. sandy, tite, s & p, N/S
- 70 As above
- 80 30% sltst., white, s & p, dense, no p & p
- 90 50% sltst., white to cream clayey, as above, tite, tr. of fluor.
- 4500 - 50% coaly shale, 30% sltst. as above, tite
- 10 As above, less coaly shale N/S
- 20 30% sltst., lt. gray to brown, tite; 1% black coaly shale, N/S

DELIVERED TO
KIMMEL
MAY 12 1956
KIMMEL
PRODUCTION

British-American #1 Government Lowndes
NW, NW, Sec. 25 T 24N., R 8W.
San Juan County, New Mexico

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Sample Description

- 4500 - 30 25% sltst. as above, tr. lt. salmon chert, N/S
- 40 As above, tr. sandy, sltst. N/S
- 50 20% sltst., titer than above N/S
- 60 100% black sh. VPS
- 70 30% sltst., lt. gray tite, clayey N/S
- 80 30% sltst., as above, dirtier, N/S
- 90 20% sltst N/S
- 4600 - 20% sltst., grading to silty sh; tite, N/S
- 10 As above
- 20 15% sltst., grading to shale
- 30 As above
- 40 10% sltst., v. shly., rest is silty shale, med. to dark gray about 10% sltst. has oil sat. but no permeability
- 50 As above; oil is apparently distillate since show disappears in about one hr. of drying sample
- 60 As above
- 70 As above
- 80 As above
- 90 As above
- 4700 - As above
- 10 As above; shows are spottier & less common in sltst. (Partly due to invasion of oil bearing mud?)
- 20 As above
- 30 As above
- 40 As above
- 50 As above
- 60 As above

British-American #1 Government Lowndes
NW, NW, Sec 25, T 24N., R 8W.
San Juan County, New Mexico

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Sample Description

- 4700 - 70 As above; shows are spottier & less common in sltst.
(Partly due to invasion of oil bearing mud?)
- 80 As above
- 90 As above
- 4800 - As above
- 10 95% sh.; 5% sltst.; as above, f. few shows, tite
- 20 As above
- 30 As above
- 40 As above
- 50 As above
- 60 As above
- 70 As above
- 80 As above
- 90 10% sltst., sli. csr. grnd. than above, some w/ fluor.
- 4900 - As above
- 10 As above tr. coal lam., fluor. in v. tite sltst., med.
gray
- 20 As above, no coal
- 30 10% sltst., v. shly; 90% sh., sli. silty, dark to med.
gray. N/S
- 40 As above; tr. f.g. Ss, gray, friable, wet, sltst.
slit. calcarious, N/S
- 50 As above; tr. shly. ls., dark gray N/S
- 60 As above
- 70 As above
- 80 As above
- 90 As above

DEWEY, COLG.
RECEIVED
MAR 12 1961
PRODUCTION

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Sample Description

- 5000 - As above
- 10 100% black sh., VPS
 - 20 10% sltst. med. gray, hard, tite, N/S; 90% silty shale, N/S
 - 30 100% black shale, VPS
 - 40 5% sltst., brittle, low p & p, fair fluor, 5% sltst. N/S, 90% shale
 - 50 10% sltst., hard, tite, calcarious, fair fluor., 5% sltst., N/S
 - 60 As above
 - 70 As above
 - 80 15% sltst., hard, tite, N/S
 - 90 5% sltst., qtzose, low p & p, spotty fluor. 10% slt.st., N/S
- 5100 - 25% sltst., hard, brittle, dirty gray, low p & p, occ. spotty fluor., shaly
- 10 30% As above
 - 20 40% As above
 - 30 40% sltst. as above, occ. spotty fluor.
 - 40 40% As above
 - 50 As above
 - 60 As above
 - 70 As above
 - 80 As above
 - 90 20% sltst., lt. to dark gray, shly., s/ thinly lam. with shale, s/ spotty fluor. (mud Oil?) tr. coal
- 5200 - As above, some sltst. quite cal., tite, tr. bent.
- 10 10% sltst., as above, s/ spotty fluor. (probably mud)
 - 20 5% as above, tr. coal

British-American #1 Government Lowndes
NW, NW, Sec. 25, T 24N., R 8W.
San Juan County, New Mexico

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Sample Description

5200	- 30	5% as above
	- 40	5% as above
	- 50	As above
	- 60	As above, softer, more friable, wet, s/ as above N/S
	- 70	As above, N/S
	- 80	trip. sample, VPS
	- 90	5% sltst., favorable, s/w/ good solid fluor., fair p & p
5300	-	100% shale
	- 10	As above, tr. sltst., N/S
	- 20	100% sltst., v. shly., N/S, tr. sltst., friable, w/ fluor.
	- 30	45% sltst., qtzose, f.g., qtzitic, tr. fluor., med. gray, hard
	- 40	30% sltst., tr. fluor.
	- 50	30% sltst., tr. fluor.
	- 60	50% sltst., qtzose, f.g., tr. fluor.
	- 70	40% sltst., qtzose, f.g., shalier than above, tr. fluor.
*	- 80	50% sltst., qtzose, f.g., $\frac{1}{2}$ w/ fluor.
*	- 90	60% sltst., qtzose, f.g., $\frac{1}{2}$ w/ fluor.
5400	-	60% sltst., qtzose, f.g., $\frac{1}{2}$ w/ fluor.
	- 10	60% sltst., s/ shalier, $\frac{1}{4}$ w/ fluor., tite
	- 20	60% sltst., sli. better percentage of fluor.
*	- 30	60% sltst., s/w/ fair p & p, qtzose, bright gassy fluor.
*	- 40	90% sltst., qtzose, lt. gray to white, about $\frac{1}{2}$ w/ excellent white fluor., low p & p but some pinpoint porosity
	- 50	75% sltst. as above, $\frac{1}{3}$ w/ excellent fluor.

British-American #1 Government Lowndes
NW, NW, Sec. 25, T 24N., R 8W.
San Juan County, New Mexico

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Sample Description

- * 5400 - 60 60% sltst., qtzose, sli. friable, coarser grain and w/ better porosity than above, excellent white fluor.
20% sltst. as above sample but mostly wet
- 70 30% sltst. w/ good fluor. as above, 70% sltst., tite, N/S, shalier
- 80 20% sltst. as above w/ fair porosity and good fluor.
40% sltst., shalier and w/ N/S
- 90 5% sltst. w/ good fluor., 40% sltst., shalier and w/ N/S
- 91 (circ. 15 min.) 10% sltst., tite, shaley, N/S
- 91 (circ. 45 min.) as above, one c. sand grain, N/S
- cut. core #1 5491-5551
- 5551-60 95% sh., lt. gray to dark gray, sli. silty, 5% sltst. about $\frac{1}{2}$ with fluor.
- 70 As above
- 80 10% sltst., shly., dark gray, tite, N/S
- 90 As above
- 5600 - As above, tr. Ss, f.g. wet
- 10 10% sltst., white to lt. gray to dark gray, mottled w/ shale, good solid fluor., 20% sltst. shly., dark gray, N/S
- 20 30% sltst., shly., dark gray, tite, N/S, tr. sltst. as above
- 30 As above
- 40 As above
- 50 25% sltst., med gray, $\frac{1}{4}$ w/ good fluor. low p & p
- 60 10% sltst., as above
- 70 2% Ss, fine to med. gray, low p & p, N/S, rest shale
- 80 5% sltst., dark gray, low p & p, wet, tr. sltst., w/ fluor.
- 90 As above
- 5700 - As above

British-American #1 Government Lowndes
NW, NW, Sec. 25, T 24N., R 8W.
San Juan County, New Mexico

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Sample Description

Core #1 5491-5551 cut 60', recovered 60'

- 5491-24 black shale w/ occ. sltst., lam. & inoceramus shells
- 5525-26 Ss, fine to med. gray, qtzitic, v. shaley, no p & p
 N/S
- 5526-28 Sh., black, fissile, occ. silty lam.
- 5528-29 Sh., black, fissile w/ large inoc. shells
- 5529-30 As above
- 5530-31 Sh., black w/ abund. inoc. frag., shaly coquina
- 5531-32 Ss, f.-c. gr., v. shaley, poorly sorted w/ clay and
 black chert pebbles, no p & p
- 5532-33 Ss. as above, no p & p
- 5533-34 Ss., vf. - f. gr.; interbedded with shale, occ. clay
 pebbles, fair fluor., low p & p
- 5534-35 Ss., f. - c. gr., occ. clay & chert pebble, considerable
 clay cement, some shaliness, low to fair p & p, good
 fluor.
- 5535-36 Ss., fine gr., well sorted, glauc., low to fair p & p
 good even fluor., considerable crystal regrowth
- 5536-37 Ss., fine gr., glauc., well sorted but sli. shalier
 than above, good fluor., considerable crystal regrowth
- 5537-38 Ss., fine gr., glauc., as above but extensively cemented
 with calcite and optical continuity, v. low p & p, poor
 to fair fluor.
- 5538-39 Ss., fine to med. gray, very shaly & black; no to low
 p & p, fair to poor fluor.
- 5539-40 Ss., f. - c. gr., glauc., low p & p due to calcite
 cement, little shaliness, fair fluor.
- 5540-41 Ss., f. - c. gr., glauc., some calcite cement, fair p & p
 fair fluor.
- 5541-42 Ss., vf. - c. gr., poorly sorted, cons. pyrite, s/ shaliness
 glauc., occ. pebble, sli. fluor., tite

British-American #1 Government Lowndes
NW, NW, Sec. 25, T 24N., R 8W.
San Juan County, New Mexico

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Sample Description

5542-43	Ss., vf. gr., considerable shale, low p & p, poor fluor.
5543-44	Sltst., shly., no p & p, poor fluor.
5544-45	Sltst., as above
5545-46	Sh., black, sli. silty
5546-47	As above
5547-48	As above
5548-49	Sltst., v. shly., black, sli. fluor.
5549-50	Ss., fine to c. gr., v. angular, quartz, completely cemented w/ clay, poor p & p, poor fluor.

* -- Very good sample

REPRODUCTION
OF
THE
ORIGINAL
BY
DENVER, COLORADO
JAN 11 1964