

BOPCO, L.P.
201 MAIN ST.
FORT WORTH, TEXAS 76102-3131
817/390-8400

June 18, 2010

RECEIVED OGD

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Federal Express

New Mexico State Land Office
Commissioner of Public Lands
P. O. Box 1148, 310 Old Santa Fe Trail
Santa Fe, New Mexico 87504-1148
Attention: Pete Martinez

New Mexico Oil Conservation Division
2040 S. Pacheco Street
Santa Fe, New Mexico 87505
Attention: Mark Fesmire

Re: Application for Approval of the Second Revision of
the Initial Delaware Participating Area
James Ranch Unit, No. 14-08-001-558
Eddy County, New Mexico

Ladies and Gentlemen:

BOPCO, L.P. as Unit Operator of the James Ranch Unit Agreement, pursuant to the provisions of Section 11 thereof, respectfully submits for your approval the selection of the following described lands to constitute the second revision to the Initial Delaware Participating Area. The revised participating area consists of 3126.30 acres to be comprised of the lands indicated on the plat attached hereto and further described as follows:

T22S-R30E

Section 35: All

Section 36: All

T22S-R31E

Section 31: All

T23S-R30E

Section 1: Lots 1, 2, 3, 4, S/2 NE/4, SE/4

Section 2: Lots 1, 2, 3, 4

T23S-R31E

Section 6: All

All in Eddy County, New Mexico and containing 3,126.30 acres of land.

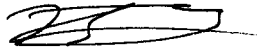
In support of this application the following numbered items are attached hereto and made a part hereof:

1. An ownership map (Exhibit "A") depicting the boundaries of the proposed 2nd Revision participating area for the Delaware Formation and location of specific tracts.
2. A schedule (Exhibit "B") identifying the lands entitled to participation in the revised participating area with the percentage of participation of each lease or tract indicated thereon.

3. A geological report with accompanying geological maps supporting and justifying the proposed selection of the revised area based on the results obtained from the James Ranch Unit Well No. 107H.

This proposed second revision to the existing participating area is predicated upon the knowledge and information first obtained upon the completion of the James Ranch Unit Well No 107H (located in the NW/4 SW/4 Section 36, T22S-R30E) in June, 2009. It should be noted that the James Ranch Unit Well No. 107H has been previously determined as capable of producing in commercial quantities based on internal economic projections and production to date. According to Section 11 of the Unit Agreement it is our understanding that the effective date of this Second Revision of the participating area should be the first of the month in which the above information was obtained, or June 1st, 2009. Therefore, Bass respectfully requests your approval of the hereinabove selection of lands to constitute the second revision to the existing participating area to be effective June 1st, 2009. Thank you very much for your cooperation in this regard and should you require additional information concerning same, please don't hesitate to contact the undersigned.

Very truly yours,



Brad Glasscock

ACCEPTED AND AGREED this _____ day of _____, 2010.

COMMISSIONER OF PUBLIC LANDS

By: _____

NEW MEXICO OIL CONSERVATION DIVISION

By: _____

Bass Enterprises Production Co.

JAMES RANCH UNIT
Eddy County, New Mexico

EXHIBIT "A"

DATE: 05-06-10 SCALE: 1" = 3000'
DEPT.: Land INTER. BY: BG FILE: EX A INITIAL DLWR PART AREA.dwg DRAWN BY: RRC

 SECOND REVISION DELAWARE PARTICIPATING AREA
(6-6-09) 1080 ACRE AREA
 FIRST REVISION DELAWARE PARTICIPATING AREA
(1-1-94) 2046.30 ACRE AREA



26

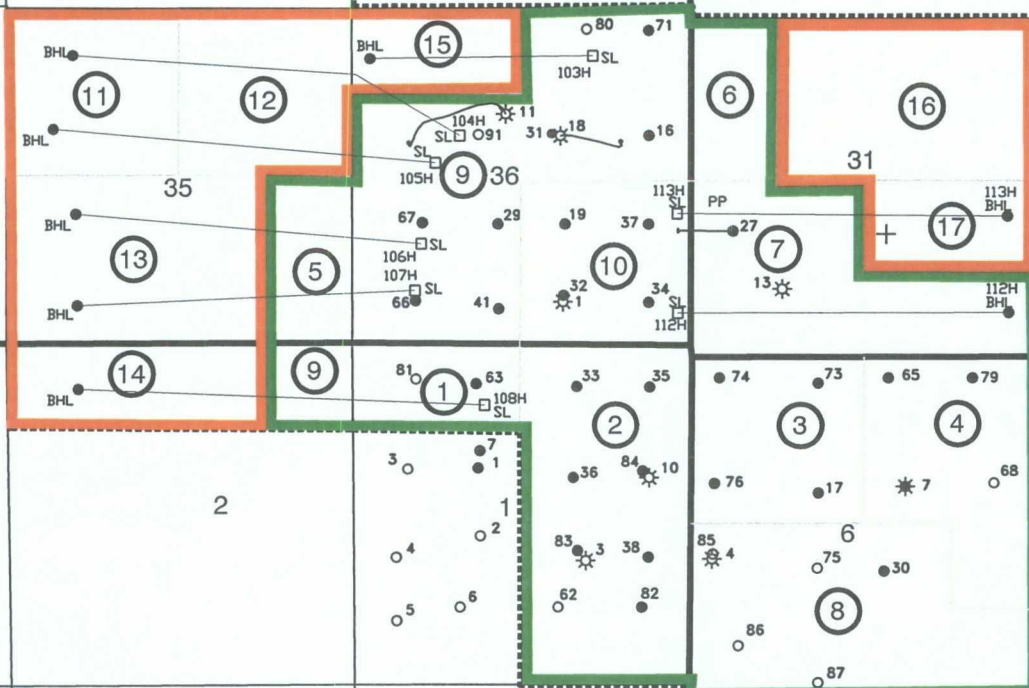
25

30

29

22S/30E

22S/31E



JAMES RANCH UNIT OUTLINE

23S/30E

23S/31E

11

12

7 +

14

13

18

17

EXHIBIT "B"

Initial Delaware Participating Area James Ranch Federal Unit Eddy County, New Mexico

Tract No.	Lease No.	Description	Participating Acres	Percentage of Participation	Working Interest Owners
1	NM 02884-A	Section 1 T23S-R30E; Lots 3, 4	80.72	2.5820%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
2	NM 02884-B	Section 1 T23S-R30E; Lots 1,2 S/2 NE/4, SE/4	320.24	10.2434%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
3	NM 02887-D	Section 6 T23S-R31E; Lots 3, 4, 5 SE/4 NW/4	161.08	5.1524%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
4	NM 02887-A	Section 6 T23S-R31E; Lots 1,2 S/2 NE/4, NE/4 SE/4	199.92	6.3948%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
5	NM 02952-A	Section 35 T22S-R30E; E/2 SE/4	80.00	2.5589%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
6	NM 02953	Section 31 T22S-R31E; Lots 1,2	80.86	2.5864%	33.333% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C. EOG RESOURCES - 66.667%
7	NM 02953-C	Section 31 T22S-R31E; Lots 3, 4 E/2 SW/4, S/2 SE/4	240.98	7.7082%	33.33% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C. EOG RESOURCES - 66.667%

EXHIBIT "B"

Initial Delaware Participating Area James Ranch Federal Unit Eddy County, New Mexico

Tract No.	Lease No.	Description	Participating Acres	Percentage of Participation	Working Interest Owners
8	NM 04473	Section 6 T23S-R31E; Lots 6, 7 E/2 SW/4, W/2 SE/4, SE/4 SE/4	282.15	9.0250%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
9	E-5229-1	Section 1 T23S-R30E; Lot 1 Section 36 T22S-R30E NE/4, SW/4, S/2 NW/4	440.35	14.0853%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
10	E-5229-2	Section 1 T22S-R30E; SE/4	160.00	5.1179%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
11	NM-02952-B	Section 35 T22S-R30E; NW/4	160.00	5.1179%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
12	NM-02952-C	Section 35 T22S-R30E; NE/4	160.00	5.1179%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
13	NM-02952-A	Section 35 T22S-R30E; SW/4; W/2SE/4	240.00	7.6768%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
14	E-5229	Section 2 T23S-R30E; N/2NW/4; NW/4NE/4	120.00	3.8384%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.

EXHIBIT "B"

Initial Delaware Participating Area James Ranch Federal Unit Eddy County, New Mexico

Tract No.	Lease No.	Description	Participating Acres	Percentage of Participation	Working Interest Owners
15	E-5229	Section 36 T22S-R30E; N/2NW/4	80.00	2.5589%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
16	NM-02953	Section 31 T22S-R31E; NE/4; E/2NW/4	240.00	7.6768%	100% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C.
17	NM-02953-C	Section 31 T22S-R31E N/2 SE/4	80.00	2.5589%	33.333% CTV O&G NM, L.L.C. SRBI O&G NM, L.L.C. LMBI O&G NM, L.L.C. KEYSTONE O&G NM, L.L.C. THRU LINE O&G NM, L.L.C. EOG RESOURCES - 66.667%
Totals			3126.30	100.00%	
Total Federal Land:		2286.3 Acres			
Total State Lands:		800 Acres			
Total Fee Lands:		40 Acres			
Total		3126.3 Acres			

BASS ENTERPRISES PRODUCTION COMPANY
JAMES RANCH UNIT (DELAWARE)
PROPOSED PARTICIPATING AREAS

GEOLOGICAL ATTACHMENTS

1. Type Log: JRU No. 66 (SW/4 Section 36, T22S-R30E)
2. Wireline Logs/Mudlogs: Mudlogs for all new wells in the area of the proposed second revision and E-logs for the JRU 105H and JRU 107H.
3. Structure Map: Top Lower Brushy Canyon "D" ("8A" Marker)
4. Net Pay Isopach Map: Lower Brushy Canyon "D" – critical contour @ 25' > 10%

BOPCO, L.P.
JAMES RANCH UNIT
EDDY COUNTY, NEW MEXICO
PROPOSED SECOND REVISION TO PARTICIPATION AREA
(DELAWARE)

RECOMMENDATION

Based upon the results from additional testing of the Delaware Formation within the James Ranch Unit during 2009, BOPCO, L.P. recommends a Second Revision to the Initial Delaware Participating Area. This proposed extension encompasses the following area:

Section 35-T22S-R30E: N/2, SW/4, and W/2 of SE/4

Section 36-T22S-R30E: N/2 of NW/4

Section 2-T23S-R30E: N/2 of NW/4, and NW/4 of NE/4

Section 31-T22S-R31E: E/2 of NW/4, NE/4, and N/2 of SE/4

The proposed extension for a Second Revision totals approximately 1,000 acres and the proposed date of the extension is June 6th, 2009 which is the date of reaching total depth on the James Ranch Unit No.107H and the understanding at that time from the mudlog that this would be a commercial well.

INTRODUCTION

Drilling for deeper horizons below the Delaware from the 1950's through the early 1990's at James Ranch Unit essentially identified that a significant hydrocarbon reservoir existed within the Cherry and Brushy Canyon sections of the Delaware formation. This identification was based primarily from drill stem tests, mudlog shows, and log evaluation. For example, as early as 1954 the Richardson and Bass Legg No. 1 (Section 27, T22S-R30E) potentialized for 67 BOPD (6,112'-6,118') from the Lower Brushy Canyon, and in 1957, Shell's No. 1 James Ranch Unit (Section 36, T22S-R30E) recovered 450' oil on a Brushy Canyon drill stem test (6,719'-6,758'). Continued deep drilling through the 1980's confirmed the Delaware potential prior to it becoming a targeted reservoir.

During the 1990's attention became more focused on the Delaware, very much aided by fracture treatment technology. This led to successful commercial exploitation of the Delaware reserve base and the initiation of the Initial Delaware Participating Area and subsequent revisions in 1993 and 1994 respectively.

At that stage BOPCO, L.P. had essentially developed all accessible locations but realized, as documented in our proposal, that if potash-restricted areas were to become accessible for drilling, further reserves could be developed.

This proposed revision to the Participating Area reflects the above. Due to modern technology and development of a relationship with Mosaic Potash, BOPCO, L.P. has been able to gain some success toward further developing the James Ranch Unit Delaware reserves.

GEOLOGICAL SETTING

The Delaware sands at James Ranch Unit were deposited as part of an extensive submarine fan complex, with thinly bedded sandstones and siltstones encasing stacked channel sequences of reservoir quality sandstones. The trapping mechanism is primarily stratigraphic with some subtle structure influence.

PETROPHYSICS

Based upon in-house studies and production experiences of the Delaware at James Ranch Unit and elsewhere, the Lower Brushy Canyon is oil-bearing and productive at a density porosity cut-off of $\geq 10\%$ (sandstone matrix at 2.66 gm/cc). As we climb into the Cherry Canyon, the porosity cut-off increases to 15% sandstone porosity. The log database at James Ranch Unit is a very unique mixture of porosity and resistivity log types and of varying logging companies. For this reason, quality control of the logs has been essential. Typically we like to see the water saturations to be 65% or less. Mudlogs have been a very critical ingredient in pay recognition – it is difficult to question a zone's potential when you have good drilling shows ranging from good sample shows to oil in the trap or on the pits!

PROPOSED REVISION -- DETAIL

Eight horizontal wells have been drilled in support of the proposed revision. All are judged to be commercial oil wells. Six of these have been drilled to the west of the existing Participation Area. All six wells were drilled within the Lower section of the Lower Brushy "C" (also recognized as the "U" internally at BOPCO, L.P.), but the fracture stimulation completion on each well is intended to also capture reserves within the Lower Brushy "D".

- James Ranch Unit No. 107H – spudded on May 18th, 2009, the James Ranch Unit No. 107H was drilled to a total depth of 12,424' MD on June 6th, 2009, with initial production on July 23rd, 2009. Thru' April 7th, 2010 the well has produced 80,801 BO + 75,103 MCF + 169,203 BW, with the rate on April 7th, 2010 being 224 BO + 386 MCF + 602 BW per day. EUR for the well is 386 MBOE.
- James Ranch Unit No. 105H – spudded on June 14th, 2009, the James Ranch Unit No. 105H was drilled to a total depth of 13,017' MD on July 6th, 2009, with initial production on August 12th, 2009. Thru' April 7th, 2010 the well has produced 94,207 BO + 116,991 MCF + 250,938 BW, with the rate on April 7th, 2010 being 239 BO + 464 MCF + 938 BW per day. EUR for the well is 472 MBOE.
- James Ranch Unit No. 106H – spudded on September 9th, 2009, the James Ranch Unit No. 106H was drilled to a total depth of 13,234' MD on September 30th, 2009, with initial production on November 11th, 2009. Thru' April 7th, 2010 the well has produced 75,042 BO + 90,665 MCF + 171,520 BW, with the rate on April 7th, 2010 being 351 BO + 598 MCF + 1,114 BW per day. EUR for the well is 503 MBOE.
- James Ranch Unit No. 103H – spudded on October 7th, 2009, the James Ranch Unit No. 103H was drilled to the total depth of 10,610' MD on October 25th, 2009, with initial production on December 18th, 2009. Thru' April 7th, 2010 the well has produced 57,903 BO + 83,946 MCF + 119,586 BW, with the rate on April 7th, 2010 being 349 BO + 650 MCF + 937 BW per day. EUR for the well is 483 MBOE.
- James Ranch Unit No. 104H – spudded on October 31st, 2009, the James Ranch Unit No. 104H was drilled to a total depth of 14,132' MD on November 26th, 2009, with initial production on January 14th, 2010. Thru' April 7th, 2010 the well has produced 49,881 BO + 49,883 MCF + 106,000 BW, with the rate on April 7th, 2010 being 583 BO + 579 MCF + 1,533 BW per day. EUR for the well is 496 MBOE.
- James Ranch Unit No. 108H – spudded on December 6th, 2009, the James Ranch Unit No. 108H was drilled to a total depth of 14,087' MD on December 28th, 2009, with initial production on March 24th, 2010. As of April 7th, 2010 the well is producing at a rate of 452 BO + 470 MCF + 1,887 BW per day. EUR for the well is 450 MBOE.

Two of the eight horizontal wells have been drilled adjacent to the northeastern sector of the existing Participation Area. Both of these wells were drilled within the Lower Brushy "D" but the fracture stimulation completion on both wells is intended to also capture reserves within the Lower Brushy "C" (also recognized as the "U" internally at BOPCO, L.P.)

- James Ranch Unit No. 112H – spudded on January 12th, 2009, the James Ranch Unit No. 112H was drilled to a total depth of 12,070' MD on April 28th, 2009, with initial production on April 21st, 2009. As of April 7th, 2010 the well is producing at around a rate of 68 BO + 131 MCF + 179 BW per day and had produced 39,975 BO + 72,828 MCF + 122,718 BW. EUR for the well is 94 MBOE.
- James Ranch Unit No. 113H – spudded on May 5th, 2009, the James Ranch Unit No. 113H was drilled to a total depth of 12,090' MD on May 19th, 2009, with initial production on July 25th, 2009. As of April 7th, 2010 the well is producing at around a rate of 103 BO + 220 MCF + 384 BW per day and had produced 37,907 BO + 44,064 MCF + 106,011 BW. EUR for the well is 149 MBOE.

Please note that the results from the James Ranch Unit No. 112H and 113H wells essentially proves-up the N/2 of Section 31, T22S-R31E.

ATTACHMENTS

- Type Log – James Ranch Unit No. 66 (SW/4 Section 36, T22S-R30E)
- Structure Map – Top Lower Brushy Canyon "D" ("8A" Marker)
- Net Pay Isopach Map – Lower Brushy "D" – critical contour at 25' $\geq$ 10% porosity.
- Mudlogs for all new wells with in the area of the proposed Second extension to the Delaware Participating Area, and e-logs ran on the James Ranch Unit No. 105H and No. 107H.

Please feel free to contact me for any questions or additional data required on this application for the Second Revision of the Delaware Participating Area at the James Ranch Federal Unit.



JRU # 66

*Geological
Attachment No. 1*

TYPE LOG

COMPANY: BASS ENTERPRISES PRODUCTION CO.

WELL: JAMES RANCH UNIT 66

FIELD: QUAHADA RIDGE, SE

COUNTY: EDDY

STATE: NEW MEXICO

COUNTY: EDDY Field: QUAHADA RIDGE, SE Location: 660' FSL & 990' FEL Well: JAMES RANCH UNIT 66 Company: BASS ENTERPRISES PRODUCTION CO.	Schlumberger		PLATFORM EXPRESS Three Detector Litho-Density Compensated Neutron / Gamma Ray	
	LOCATION 660' FSL & 990' FEL		Elev.: K.B. 3307.2 ft G.L. 3293.4 ft D.F. 3306.2 ft	
	Permanent Datum: <u>GROUND LEVEL</u>		Elev.: <u>3293.4 ft</u>	
	Log Measured From: <u>KELLY BUSHING</u>		13.8 ft above Perm. Datum	
Drilling Measured From: <u>KELLY BUSHING</u>				
API Serial No. 30-015-31065		SECTION 36	TOWNSHIP 22S	RANGE 30E
Logging Date		6-MAY-2000		
Run Number		ONE		
Depth Driller		7730 ft		
Schlumberger Depth		7736 ft		
Bottom Log Interval		7718.2 ft		
Top Log Interval		3795 ft		
Casing Driller Size @ Depth		8.625 in @ 3795 ft @		
Casing Schlumberger		3795 ft		
Bit Size		7.875 in		
Type Fluid In Hole		FRESH WATER		
MUD	Density	Viscosity	8.7 lbm/gal	35 s
	Fluid Loss	PH	10 cm3	10
	Source Of Sample			
	CIRCULATION TANK			
RM @ Measured Temperature		0.277 ohm.m	@ 63 degF	@
RMF @ Measured Temperature		0.208 ohm.m	@ 61 degF	@
Measured Temperature			@	@
RMF		RMF	CALCULATED	
RT		RMF @ MRT	0.149 @ 123	0.109 @ 123 @ @
Recorded Temperatures		123 degF		
In Stopped		Time	5-MAY-2000	22:00
In Bottom		Time	6-MAY-2000	3:30
ber		Location	3178	ROSWELL
By		T. SCHNEIDER		
By		SIMIANNE HAYDEN		

OP System Version: 9C0-413

MCM

OP9-KP2

HILTB-CTS

Changed Parameter Summary

New Value

DI IS Name

Drill Bit Value North o Time

T/BRUSHY CANYON "C"

(also known as "U" Sand)

sc 7200

LR "U"

7268' - 7273'

45,755 gals VIKING 30
188,593 # 16/30 BRADY
50,346 # RC-4000

sc 7300

T/BRUSHY CANYON "D"

(also known as
"BA" Marker)

sc 7400

T/BRUSHY CANYON "D"

SC 7400

SC 7500

SC 7600

7484' - 7489'

63,134 gals VIKING 30

775,527 # 16/30 BRADY

53,895 # RC-4000

T/BONE SPRING

COMPANY: BASS ENTERPRISES PRODUCTION CO
WELL: JAMES RANCH UNIT 66
FIELD: QUAHADADA RIDGE, SE
COUNTY: EDDY STATE: NEW MEXICO

COUNTY: EDDY
Field: QUAHADADA RIDGE, SE
Location: 660' FSL & 990' FEL
Well: JAMES RANCH UNIT 66
Company: BASS ENTERPRISES PRODUCTION CO

660' FSL & 990' FEL
Elev.: K.B. 3307.2 ft
G.L. 3293.4 ft
D.F. 3306.2 ft

Permanent Datum: GROUND LEVEL
Log Measured From: KELLY BUSHING
Drilling Measured From: KELLY BUSHING

Elev.: 3293.4 ft
13.8 ft above Perm. Datum

API Serial No. 30-015-31065
SECTION 36
TOWNSHIP 22S
RANGE 30E

Logging Date 6-MAY-2000

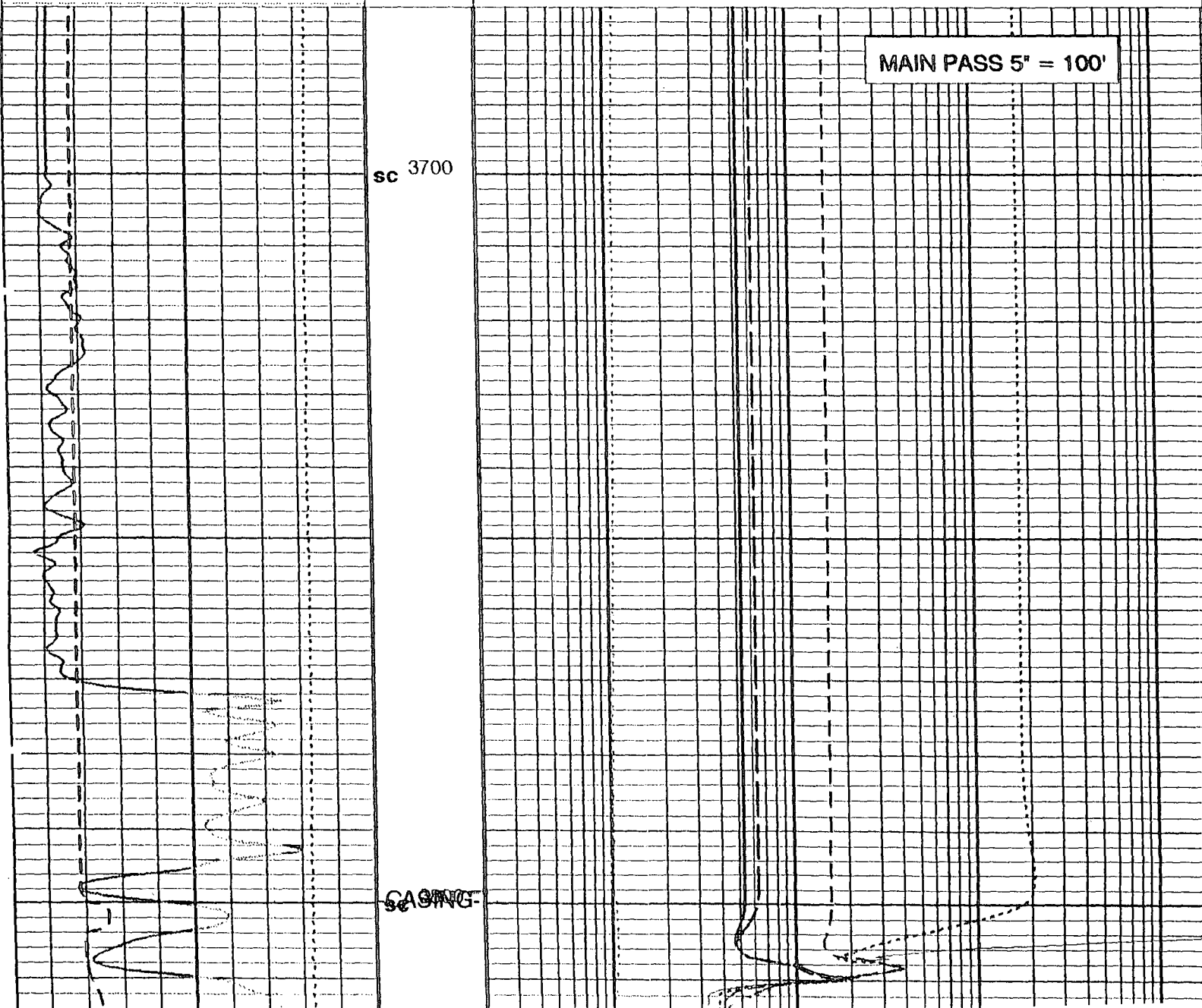
Run Number ONE
Depth Driller 7730 ft
Schlumberger Depth 7736 ft
Bottom Log Interval 7728-1 ft
Top Log Interval 3795 ft
Casing Driller Size @ Depth 8.625 in @ 3795 ft
Casing Schlumberger 3795 ft
Bit Size 7.875 in
Type Fluid in Hole FRESH WATER
Density 8.7 lbm/gal
Viscosity 35 s
Fluid Loss PH 10
Source Of Sample CIRCULATION TANK
RM @ Measured Temperature 0.277 ohm.m @ 63 degF
RMF @ Measured Temperature 0.208 ohm.m @ 61 degF
RMC @ Measured Temperature @ @
Source RMF RMC CALCULATED
RM @ MHT 0.149 @ 123 0.109 @ 123
Maximum Recorded Temperatures 123 degF
Circulation Stopped Time 5-MAY-2000 22:00
Logger On Bottom Time 6-MAY-2000 3:30
Unit Number 3178 ROSWELL
Recorded By T. SCHNEIDER
Witnessed By SIMIANNE HAYDEN

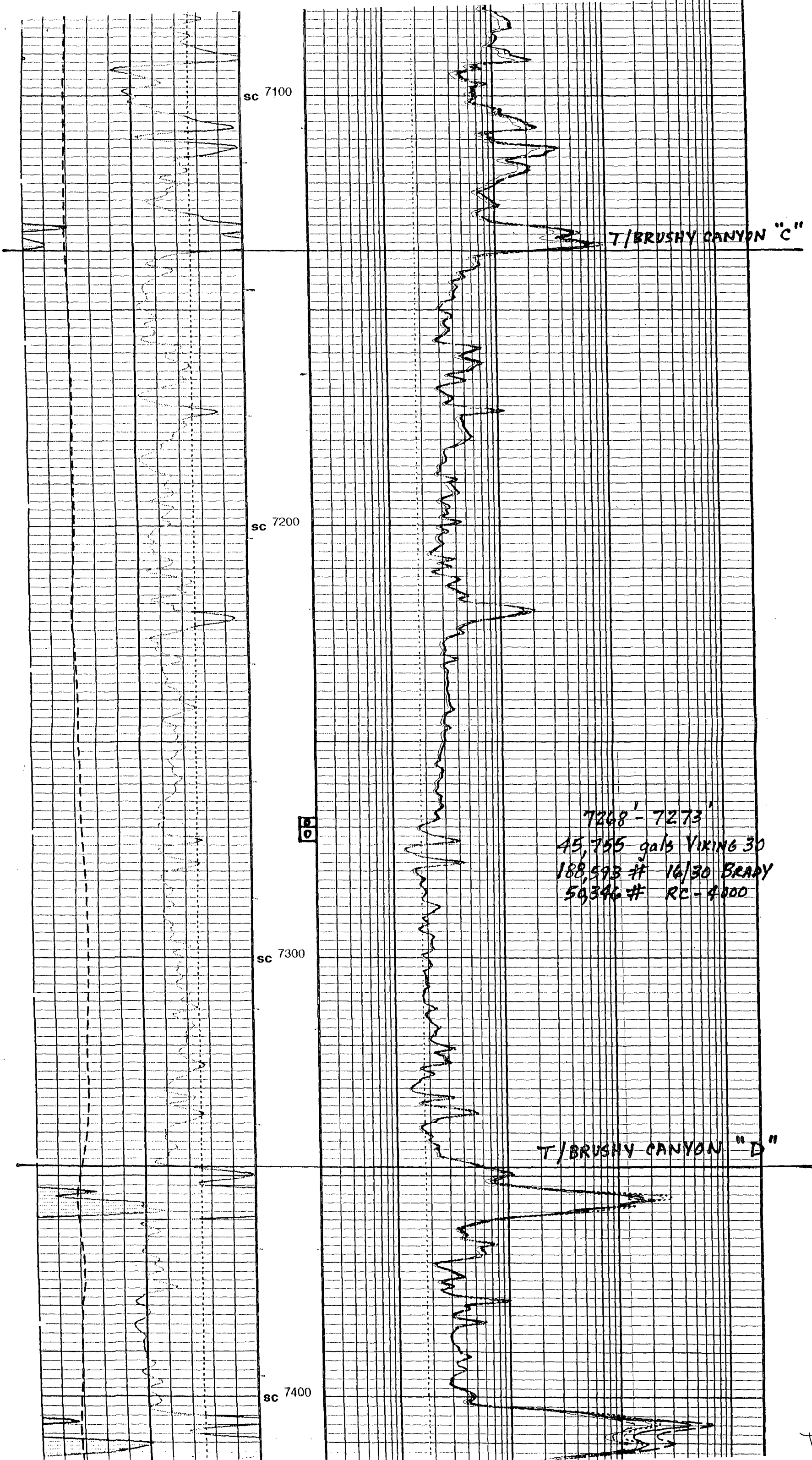
PIP SUMMARY
+ Integrated Borehole Volume Every 10 F3
+ Integrated Borehole Volume Every 100 F3
+ Integrated Annulus Volume Every 10 F3
+ Integrated Annulus Volume Every 100 F3

AIT-H Mud Full Cal (AHMF) (OHMM)		200
AIT-H 90 Inch Investigation (AHT90) (OHMM)		2000
AIT-H 60 Inch Investigation (AHT60) (OHMM)		2000
AIT-H 30 Inch Investigation (AHT30) (OHMM)		2000
AIT-H 20 Inch Investigation (AHT20) (OHMM)		2000
AIT-H 10 Inch Investigation (AHT10) (OHMM)		2000

Cable Tension (TENS) (LBF)	0
IRMS Caliper (ICAL) (IN)	16
GR (GR) (GAPI)	100

Gamma Ray on Backup





TRU 106

T/BRUSHY CANYON "D"

SC 7400

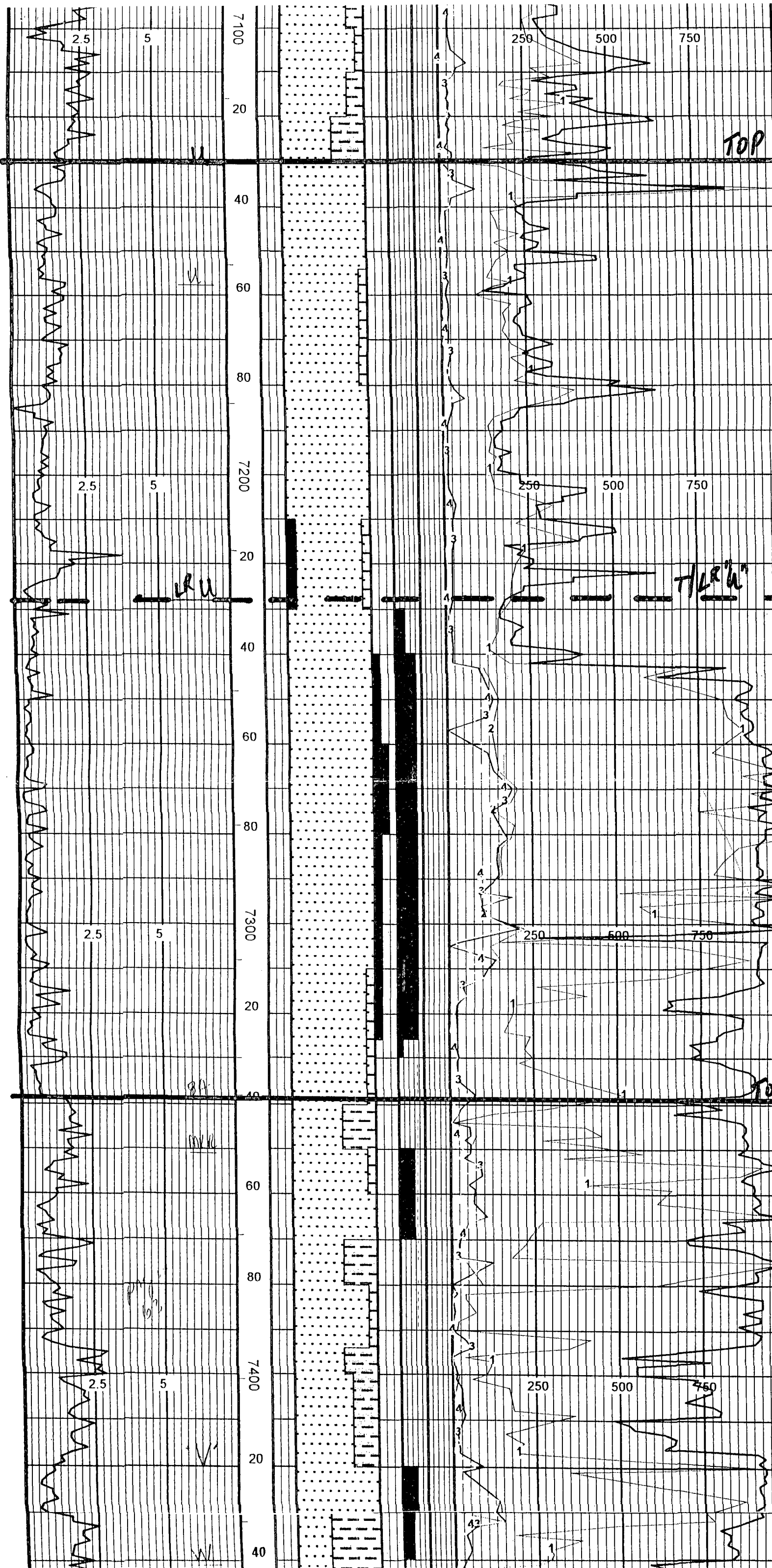
60

SC 7500

SC 7600

T/BONE SPRING

7484' - 7489'
63,134 gals VIKING 30
175,527 # 16/30 BRADY
53,895 # RC-4000



SH:dk.brn,blk,blky,frm
,dolo in pt

TOP L⁹ Brushy C ("u")

SS:clr,lt.gry,v/f gr,
sbrnd,wl/srtd,no show
in smpl

SS:clr,lt.gry,v/f gr,
wl/srtd,sbrnd,lsly
cnsl,occ dolo cmt,no
show in smpl

DOLO:tn,wht,microxln,
dns,mod hrd-frm

SH:dk.brn,sm brn,blky,
frm,carb in pt

SS:clr,sm lt.gry,v/f
gr,wl/srtd,sbrnd,lsly
cnsl,80% yell-grn flu
,tr-fair slow even wt
cut,abndt floating gr

SS:clr,sm lt.gry,sm
frstd,v/fn grn,wl/
srtd,sub rnd-rnd,lsly
cons,80% yell-grn flu
,tr-fair slow even wt
cut

TOP L⁹ Brushy D

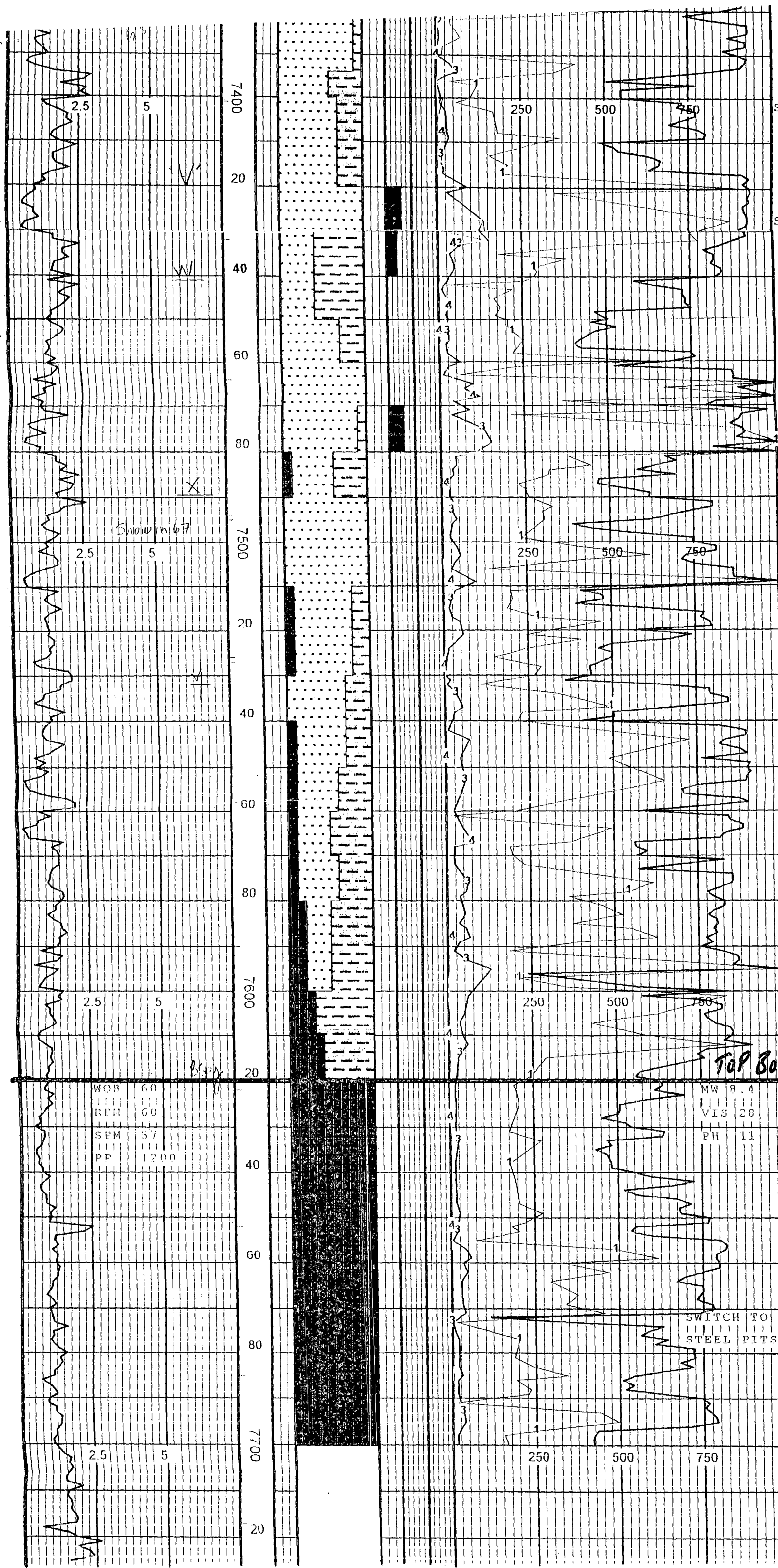
SH:dk.gry,dk.brn,blk,
frm-mod hrd,slt-sndy,
tr-v/fnly pyr,carb in
part

SS:clr,frstd,lt.gry,
v/fn grn,lsly cons,
wl/srtd,60%yell flu,
no cut

SH:brn,dk.brn,dk.gry,
blk,frm,slty in pt,
v/fnly pyr,carb

TRU 66

SS:clr,frstd,lt.gry,sm
off wht,v/fn grn,mod-
lsly cons,wl/srtd,60%
yell flu,no cut



cons,
wl/srtd, 60% yell flu,
no cut

SH: brn, dk. brn, dk. gry,
blk, frm, slty in pt,
v/fnly pyr, carb

SS: clr, frstd, lt. gry, sm
off wht, v/fn grn, mod-
lsly cons, wl/srtd, 60%
yell flour, no cut

SS: clr, frstd, off wht,
lt. gry, v/fn-fn grn,
uncons, wl/srtd, sub-brn
rnd, sm sub ang, 70%
yell flour no cut

SH: dk. brn, dk. gry, blk,
frm, slty in pt, v/fnly
pyr

LS: brn, dk. brn, v/fn-mic
xln, dns, mod hrd-hrd,
shly in pt

SS: clr, frstd, off wht,
uncons-lsly cons, v/fn
fn grn, sub rnd-rnd

SH: brn, dk. brn, dk. gry,
blk, frm, blk, sm sli-
silty, sm lmy in pt

LS: crm, lt. brn, off wht,
v/fn-microxln, dns,
cln, tite

LS: off wht, crm, lt. brn,
brn, v/fn-microxln, dns
mod hrd-hrd, cln, tite

LS: off wht, lt. brn, brn,
crm, v/fn-microxln, dns
cln, tite, mod hrd-hrd

WOB 60
RPM 60
SPM 57
PP 1200

MW 8.4
VIS 28
PH 11

SWITCH TO
STEEL PITS

JRU 66