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DISTRICT IV
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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025- 42357	Pool Code 37580	Pool Name LEA-BONE SPRING SOUTH
Property Code 313780	Property Name IGLOO 19 STATE	Well Number 3H
OGRID No. 249099	Operator Name CAZA OPERATING, LLC	Elevation 3693'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	19	20-S	35-E		200	SOUTH	1800	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	19	20-S	35-E		330	NORTH	1980	EAST	LEA

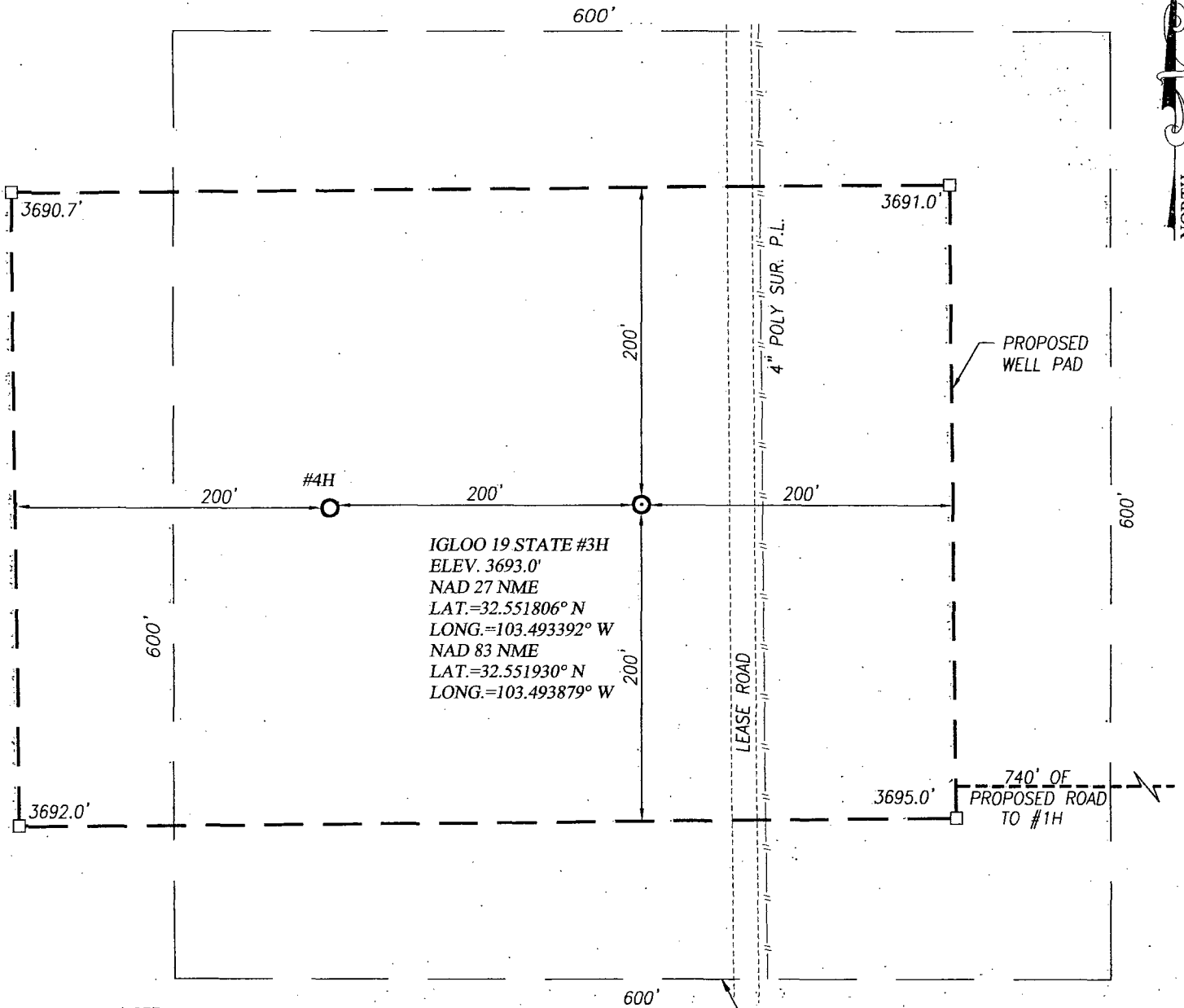
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>1</p> <p>BOTTOM HOLE LOCATION NAD 27 NME Y= 570230.9 N X= 758594.9 E LAT.=32.564869° N LONG.=103.493968° W</p> <p>BOTTOM HOLE LOCATION NAD 83 NME Y= 570293.5 N X= 799776.2 E LAT.=32.564993° N LONG.=103.494456° W</p>	<p>2</p> <p>CORNER COORDINATES TABLE NAD 27 NME A - Y= 570553.2 N, X= 757932.3 E B - Y= 570568.5 N, X= 759252.2 E C - Y= 565284.8 N, X= 759291.9 E D - Y= 565271.6 N, X= 757972.8 E</p>	<p>3</p> <p>CORNER COORDINATES TABLE NAD 83 NME A - Y= 570615.8 N, X= 799113.6 E B - Y= 570631.1 N, X= 800433.5 E C - Y= 565347.2 N, X= 800473.4 E D - Y= 565334.0 N, X= 799154.2 E</p>	<p>4</p> <p>GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 565479.9 N X= 758809.9 E LAT.=32.551806° N LONG.=103.493392° W</p> <p>GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 565542.3 N X= 799991.4 E LAT.=32.551930° N LONG.=103.493879° W</p>		<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p> <p>Signature: <i>Joe T. Janica</i> Date: 01/05/15 Printed Name: Joe T. Janica E-mail Address: joejanica@valornet.com</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>DECEMBER 1, 2014</p> <p>Date of Survey: 12/22/2014 Signature & Seal of Professional Surveyor: <i>Ronald J. Eidson</i> Certification Number: 3239 LSL: JWSC W.O.: 14.11.1321</p>
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JAN 07 2015

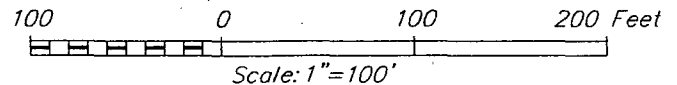
NORTH



NOTE:
1) SEE "LOCATION VERIFICATION MAP"
FOR PROPOSED ROAD LOCATION.

DIRECTIONS TO IGLOO 19 STATE #3H:

FROM THE INTERSECTION OF HWY 62-180 AND CO. RD. H27
(MARATHON ROAD) GO SOUTH ON CO. RD. H27 APPROX. 5.5
MILES TURN LEFT ON CALICHE LSE. ROAD AND GO EAST
APPROX. 1.7 MILES TURN RIGHT AND GO SOUTH APPROX 0.3
MILES TO THIS LOCATION.



CAZA OPERATING, LLC

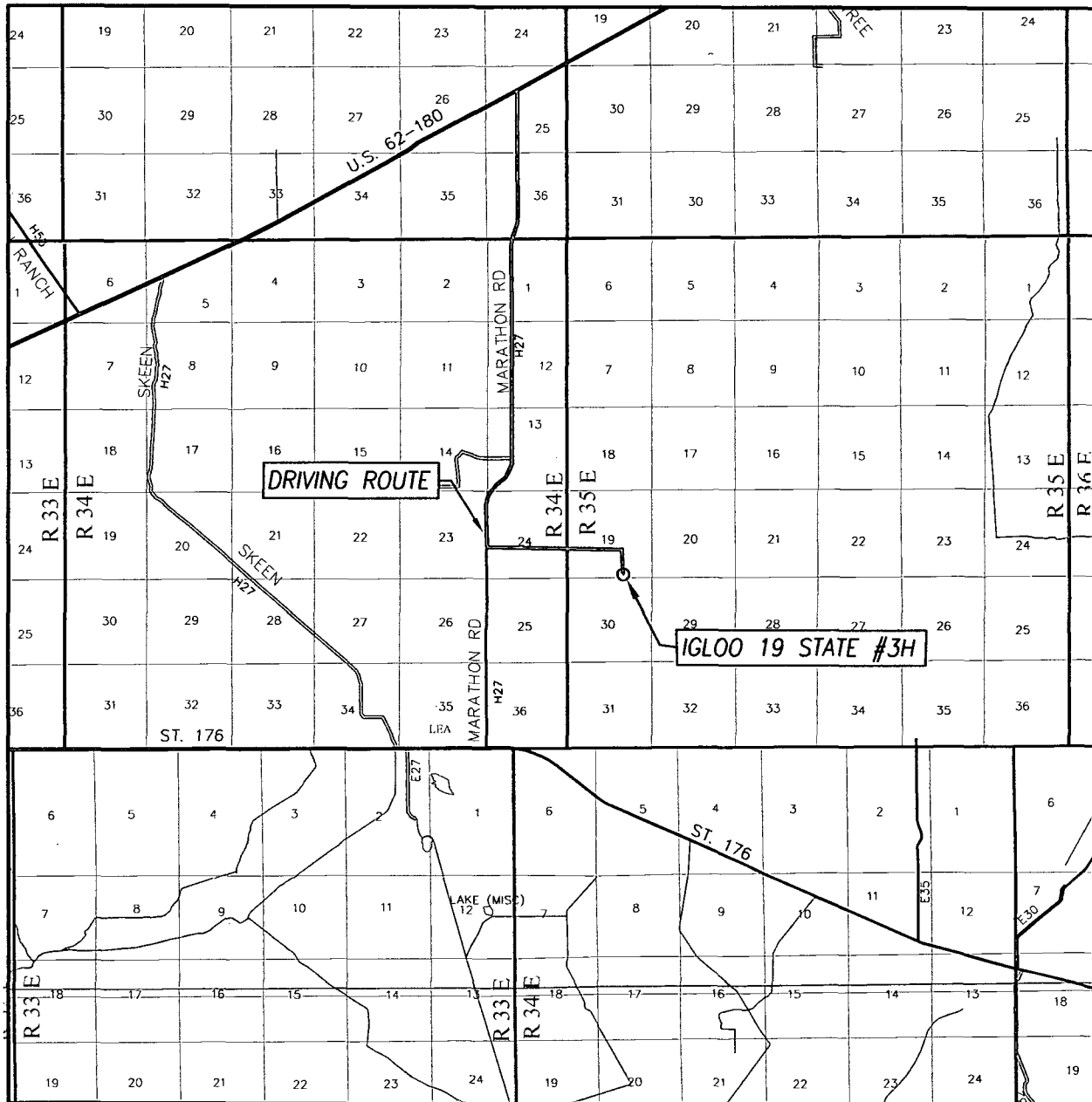
IGLOO 19 STATE #3H WELL
LOCATED 200 FEET FROM THE SOUTH LINE
AND 1800 FEET FROM THE EAST LINE OF SECTION 19,
TOWNSHIP 20 SOUTH, RANGE 35 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO HOBBS, N.M. 88240
(575) 393-3117 www.jwsc.biz
TBPLS# 10021000


Survey Date: 12/1/14	CAD Date: 12/15/14	Drawn By: LSL
W.O. No.: 14111321	Rev: .	Rel. W.O.:
		Sheet 1 of 1

VICINITY MAP



SCALE: 1" = 2 MILES
DRIVING ROUTE: SEE LOCATION VERIFICATION MAP

SEC. 19 TWP. 20-S RGE. 35-E
SURVEY N.M.P.M.
COUNTY LEA STATE NEW MEXICO
DESCRIPTION 200' FSL & 1800' FWL
ELEVATION 3693'
OPERATOR CAZA OPERATING, LLC
LEASE IGLOO 19 STATE

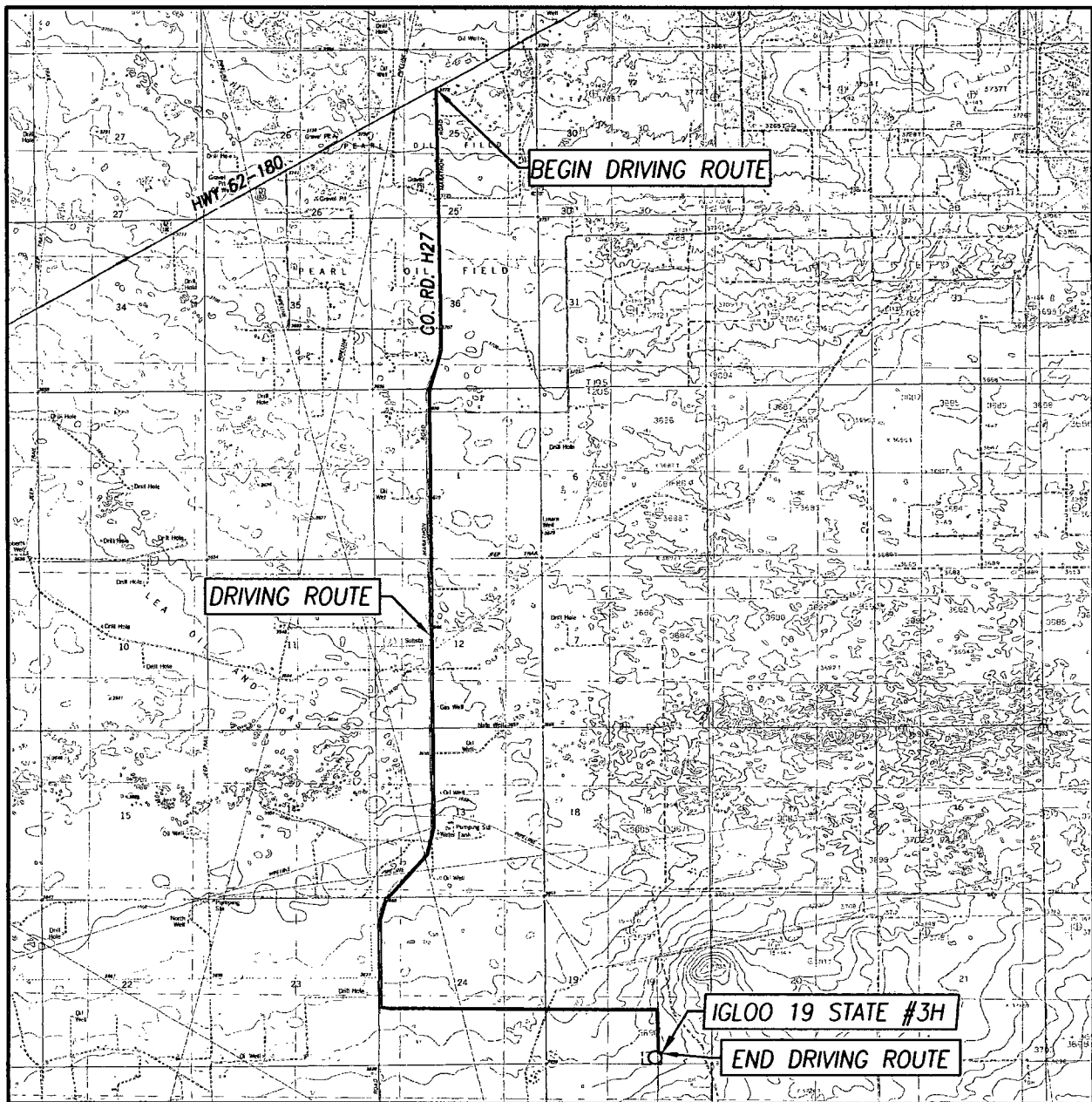


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LOCATION VERIFICATION MAP



SCALE: 1" = 5280'

CONTOUR INTERVAL:
MONUMENT SW, N.M. - 5'
LEA, N.M. - 10'

SEC. 19 TWP. 20-S RGE. 35-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 200' FSL & 1980' FEL

ELEVATION 3693'

OPERATOR CAZA OPERATING, LLC

LEASE IGLOO 19 STATE

U.S.G.S. TOPOGRAPHIC MAP
MONUMENT SW, N.M.

DIRECTIONS TO IGLOO 19 STATE #3H:

FROM THE INTERSECTION OF HWY 62-180 AND CO. RD. H27
(MARATHON ROAD) GO SOUTH ON CO. RD. H27 APPROX. 5.5 MILES
TURN LEFT ON CALICHE LSE. ROAD AND GO EAST APPROX. 1.7 MILES
TURN RIGHT AND GO SOUTH APPROX 0.3 MILES TO THIS LOCATION.



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IGLOO 19 STATE #3H-API # 30 025

Location: SW/SE Section 19_T20S_R35E_Lea County, New Mexico



Caza
Oil & Gas, Inc.

200 FSL & 1800 FEL

BHL 330 FNL & 1980 FEL

Wellbore Sketch Planned 3rd BS

Depth
(TVD-ft)

800

1600

2400

3200

4000

4800

5600

6400

7200

8000

8800

9600

10400

11200

12000

20" Cond @ ± 140'

17-1/2" hole

13.375" 54.5# J-55 ST&C @
1800 ft

Cement: Lead 1228 sks "C"
w/ 4% gel 13.5 ppg. Tail 300
sks "C" w/ 2% CaCl₂ mixed
14.8 ppg

Stage tool & CP @ ± 3900'

12-1/4" hole

9.625" 40 & 40# J-55 & HCK
LT&C @ 5650 ft

Cement: 1st stg = Lead 350 sks "C" lite
65:35: 6 poz mixed 12.4 ppg. Tail w/
300 sks "C" + 1% CaCl₂ mixed 14.8
ppg. 2nd stage = Lead 815 sks "C" lite
65:35:6 mixed 12.4 ppg. Tailed w/ 200
sks "C" + 1% CaCl₂ mixed 14.8 ppg

10° build on curve

AZIMUTH PLANNED ± 357.8° azm

16,080 ft Measured depth of lateral

TVD of lateral 11,572-11,444 ft

EOC 11,918

KOP 11,000 ft

8-3/4" Lateral & curve

5-1/2" 20 lb HCP-110 CDC HTQ

Drill to KOP ± 11,000 ft. Run
Gyro/LOG. RIH w/ kickoff
assembly - build curve

Lead slurry = 1100 sks "H" lite 1.89 yield w/ 11lb/sk
KOL seal mixed 12.6 ppg. Tail w/ 725 sks "H"
acid soluble mixed 15.0 ppg. 2.59 yield.